

ORDER NO. ARP3013

PROJECTION MONITOR RECEIVER PROJECTION MONITOR RECEIVER OF THE P

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Туре	Model PRO-700HD	Power Requirement	Remarks
KUXC/CA	0	AC120V	

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-ityourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & safety code section 25249.6—Proposition 65

NOTES

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

1.1 SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis or picture tube.

The following precautions should be observed:

- Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while picture tubes are handled.
 - Keep picture tube away from the body while handling.
- When service is required, even though the PROJEC-TION MONITOR RECEIVER an isolation transformer should be inserted between power line and the set in safety before any service is performed.
- When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- When service is required, observe the original lead dress.
 - Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's.
 - Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.

6. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacturer has become defective, or inadvertently defeated during servicing.

Therefore, the following checks should be performed for the continued protection of the customer and service technician.

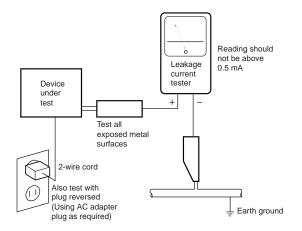
Leakage Current Cold Check

With the AC plug removed from 120V AC 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3 M\Omega$ and a maximum resistor reading of $5 M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into a 120V AC 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

High Voltage

This set is provided with a X-ray protection for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this X-ray protection may correctly by operated.

Serviceman Warning

In the status of the black picture (video muting is being applied) when no signal is input, high voltage of this set during operation is less than 30.5kV. In case any component having some relation to the high voltage is replaced, confirm that the high voltage is lower than 30.5kV in the status of the black picture when no signal is input.

To measure H.V. use a high impedance H.V. meter.

Connect (-) to earth and (+) to the FBT anode cable connector.

(Refer to page 214)

X-radiation

TUBE: The primary source of X-radiation in this set is the picture tube.

For continued X-radiation protection, the replacement tube must be the same type as the original, PIONEER approved type.

The picture tube (the CRT assy R, G, B) use in this set holds complete guarantee against X-ray radiation when the X-ray is sealed (See page 4). Accordingly, when the current in flowing to the picture tube (CRT assy R, G, B) be sure to perform it by putting the tube into X-ray sealed applied state. Avoid absolutely to flow the current to the picture tube (CRT assy R, G, B) itself. Moreover, when the voltage of the high voltage circuit becomes abnormally a little higher, the picture tube radiates X-rays. Accordingly, when servicing the high voltage circuit be sure to replace as an assembly with the DEFLECTION SERVICE assy in the manner in which has been adjusted to perform normal operation.

1.2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

1.3 CHARGED SECTION, HIGH VOLTAGE GENERATING POINT AND X-RAY PROTECTION

■ Charged section

The circuit in which the commercial AC power is used as it is without passing through the power supply transformer. If the charged section is touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. In this case, be sure to connect the set via an insulated transformer and supply the current.

■ Charged section (Power supply primary side)

- 1. The primary side of the AC IN assy
- 2. AC power cord
- 3. The primary side of the POWER SUPPLY assy
- 4. AC power cord for DTV STB
- : Part is the charged section.
- Part is the high voltage generating points other than the charged section.

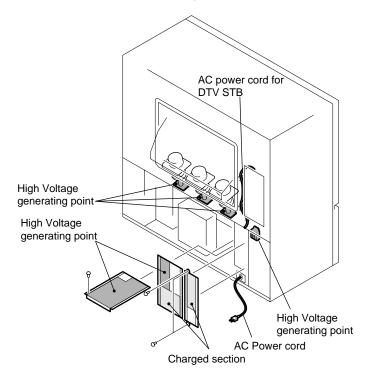


Fig. 1 Charged section and high voltage generating point

■ High voltage generating point

The place where voltage is 100V is generated.

1.Charged seciton

DEFLECTION assy

(including FBT) (30.5kV, 1.2kV, 210V,135V)

2. POWER SUPPLY assy (135V)

3. R. CRT DRIVE assy (10.5kV, 210V) 4. G. CRT DRIVE assy (10.5kV, 210V) 5. B. CRT DRIVE assy (10.5kV, 210V)

6. CRT assy R (CRT service assy R) (30.5kV)

7. CRT assy G (CRT service assy G) (30.5kV)

8. CRT assy B (CRT service assy B) (30.5kV)

9. Focus variable resistor(VR1) (10.5kV)

10. Deflection yokes (L1, L2 and L3) Approx. (1100V at peak)

■ X-ray protection

- Regarding the parts which are relative to radiation of X-rays (There is the danger to radiate X-ray from the individual CRT assy R, G, B), there are notifications of caution in the individual schematic diagrams. Be sure to read them for safety's sake.
- The component parts for X-ray protection are as follows:
 When the current flows to the CRT assy R, G, B, be sure to perform it with these parts being attached. Protection from the X-ray radiation is maintained in the state in which these parts have been installed to the CRT assy. R, G, B. Accordingly, never supply current only to the CRT assy R, G, B.

Moreover, the anode voltage of the CRT assy R, G, B should always be kept not higher than the predetermined value (in the minimum brightness and picture state when non signal input is less than 30.5kV). Be sure to drive the CRT assy R, G, B by using a completely functional DE-FLECTION assy which have been adjusted completely in the combined state. (When the voltage abnormally becomes high, the X-ray protection circuit will operate.)

1.CRT assy R, G, B (Do not dismantle CRT assemblies under any circumastances)

2.Each Lens assy

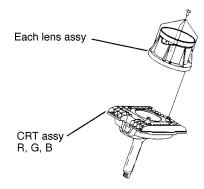


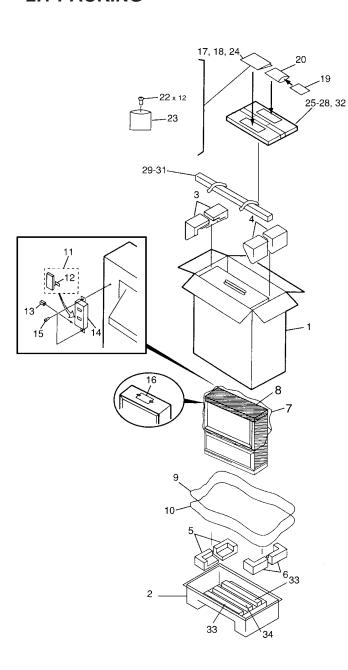
Fig. 2 Component parts for X-ray protection

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by ☆ are important parts which relate in X-rays radiation.
 If any of these parts need to be replaced, always replace with specified parts.
- Screws adjacent to ▼ mark on the product are used for disassembly.

2.1 PACKING

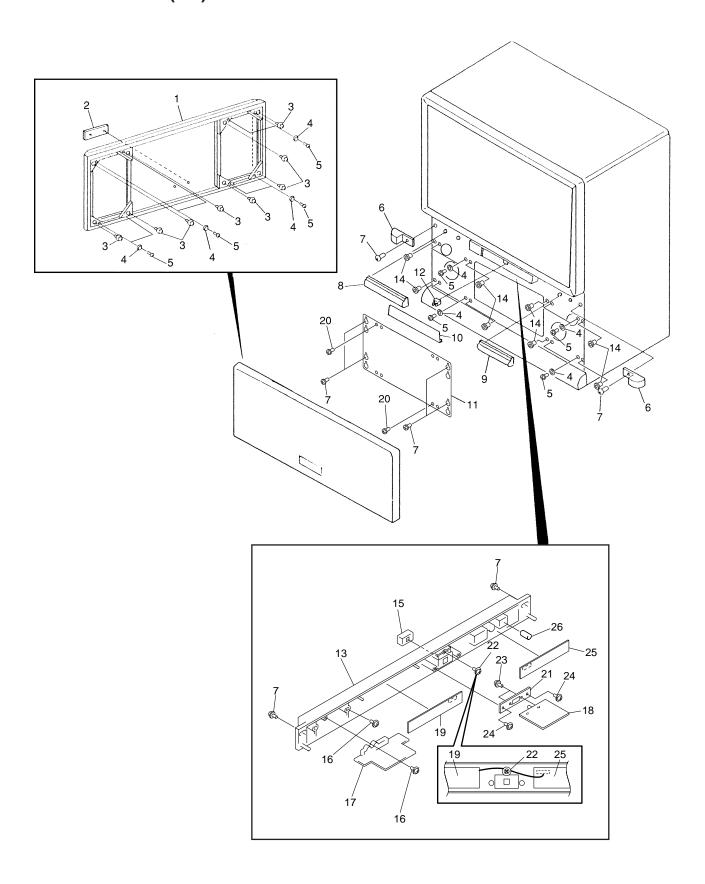


• PACKING PARTS LIST

Mark	No.	Description	Part No.
	1 2 3 4 5	Upper Carton 64W Under Carton 64W Upper Pad L Upper Pad R Under Pad L	AHD2994 AHD2995 AHA2222 AHA2223 AHA2224
NSP NSP NSP	6 7 8 9 10	Under Pad R Vinyl Sheet 64W Upper Packing Sheet 60 Packing Sheet 64 Under Vinyl Sheet 64W Under	AHA2225 AHG1288 AHG1230 AHG1290 AHG1289
	11	Remote Control Unit	AXD1438
NSP	12 13	(CU-SD105) Battery Cover Alkarine Dry Cell Battery (LR6,AA)	AZN2401 AEX1018
	14 15	CU Packing Case Special Screw	AHC1032 ABA1239
	16 17	CONV. Attention Card Operating Instructions (English)	ARM1151 ARB1519
NSP NSP NSP	18 19 20	Caution Card Warranty Card EL Poly Bag	ARM1057 ARY1026 AHG1285
	21 22	Special Screw	ABA1226
NOD	00	(Panel Frame Attaching Scre	
NSP NSP	23 24	Wrapper Bag Literature Bag	AHG1076 AHG1222
1101	25	Panel Case 64W	AHB1202
NSP	26 27 28 29 30	Vinyl Sheet 64W (for Panel) Protective Screen Acrylic Caution Card Frame Cover H Frame Cover V	AHG1286 AAK2729 ARH1160 AAP1593 AAP1594
NSP NSP		Panel Frame H Panel Frame V Under Cushion A Under Cushion B	AND1163 AND1164 AHA2228 AHA2229

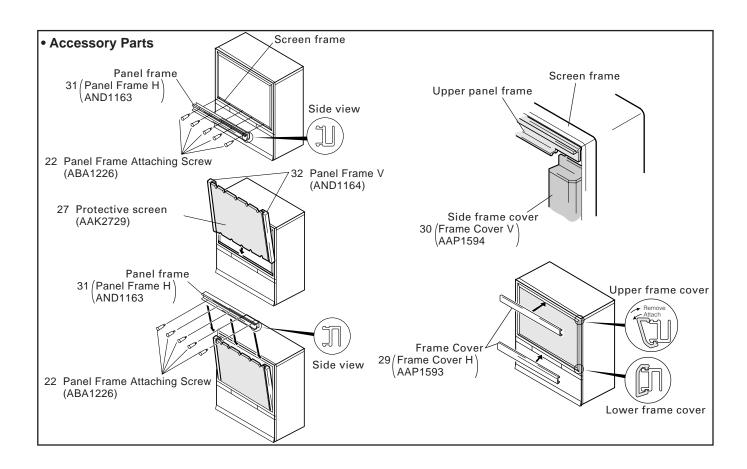
Note: As for accessory parts of part No. 22, 27 and 29 to 32, refer to page 7.

2.2 FRONT VIEW (1/2)

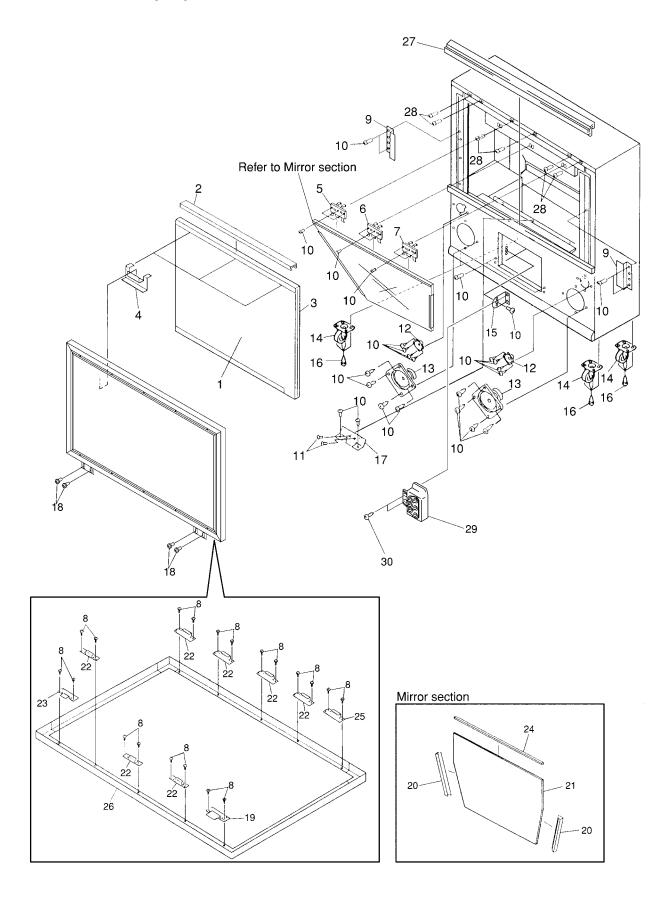


(1) FRONT VIEW (1/2) PARTS LIST

Mark	No.	Description	Part No.
NSP	1 2 3 4 5	Badge Catcher A	AMM2936 AAM1081 ANZ-241 AEC1394 ABA1271
	6 7 8 9 10	Special Screw Side Panel Assy L (64W) Side Panel Assy R (64W)	AMR3107 ABA1240 AMB2627 AMB2635 AAN1444
	13 14	Blind Plate Cather F2M Front Panel Assy Catch B Power Knob	AMM2933 AEC1609 AMB2625 ANZ-242 AAD4102
	18	FRONT INPUT Assy POWER SW Assy FRONT CONTROL Assy	ABZ40P080FZK AWZ6339 AWZ6341 AWZ6337 ABA1239
NSP	22	Screw Screw Screw	ANG2313 ABA1269 AMZ30P060FZK APZ30P080FZK AWZ6338
	26	LED Lens	AAK2730



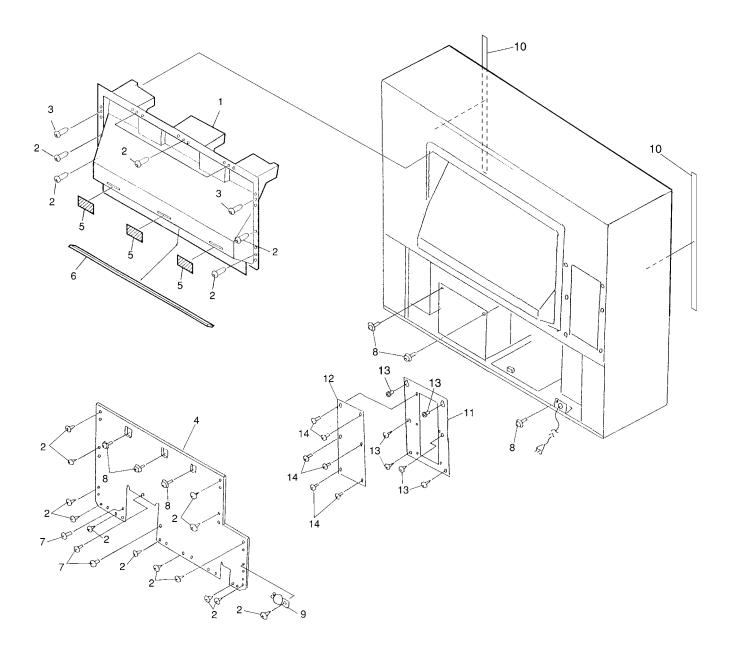
2.3 FRONT VIEW (2/2)



(1) FRONT VIEW (2/2) PARTS LIST

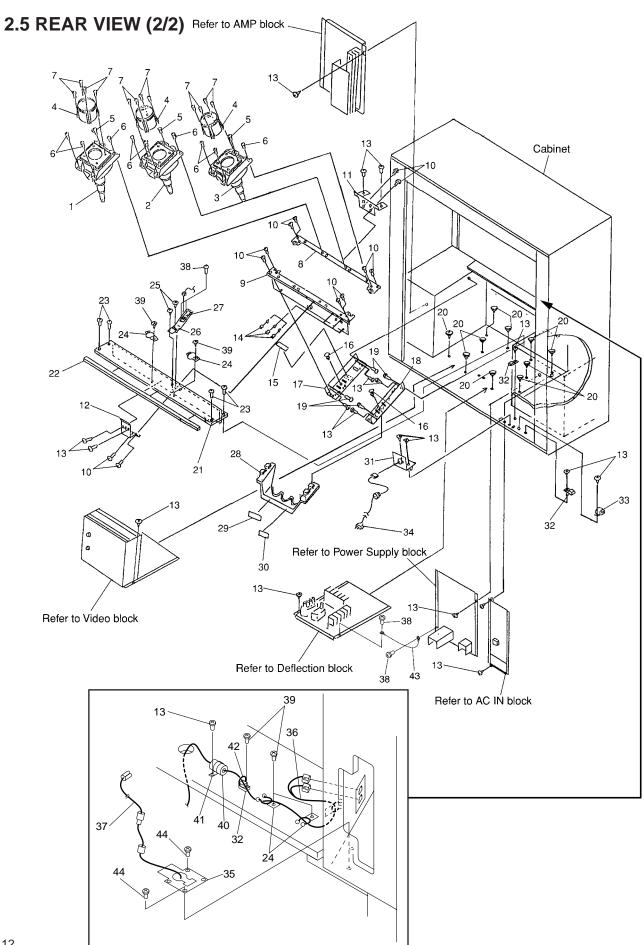
Mark	No.	Description	Part No.
NSP NSP	1 2 3 4 5	Lenticular Sheet Screen Holder Top 64 Fresnel 64W Upper Cabinet Metal Mirror Upper Stay L	AMR3115 ANG2312 AMR3116 ANG2000 ANG2004
NSP NSP NSP	6 7 8 9 10	Mirror Upper Stay C Mirror Upper Stay R Screw Screen Side Fitting Special Screw	ANG2006 ANG2005 BYC35P160FMC ANG1993 ABA1240
NSP	11 12 13 14 15	Screw Speaker 66 (Tweeter) Cone Speaker Caster VR Holder	ACZ40P080FMC D66AP45-56L APV1048 AMR2547 ANG1956
NSP NSP	16 17 18 19 20	Screw M5 Under Screen Metal B	SBA-140 ANG2118 ABA1189 ANG2009 ANG2315
NSP NSP	21 22 23 24 25	Mirror 64 Upper Screen Metal B Under Screen Metal A Mirror Frame H 64 W Upper Screen Metal A	AMR3113 ANG2002 ANG2003 ANG2314 ANG2001
Δ	26 27 28 29 30	Screen Frame Assy 64W Screen Holder Low 64W Screw Focus VR (VR1) Screw	AAP1592 AAP1601 BYC35P160FZK ACX1096 BBZ30P080FZK

2.4 REAR VIEW (1/2)



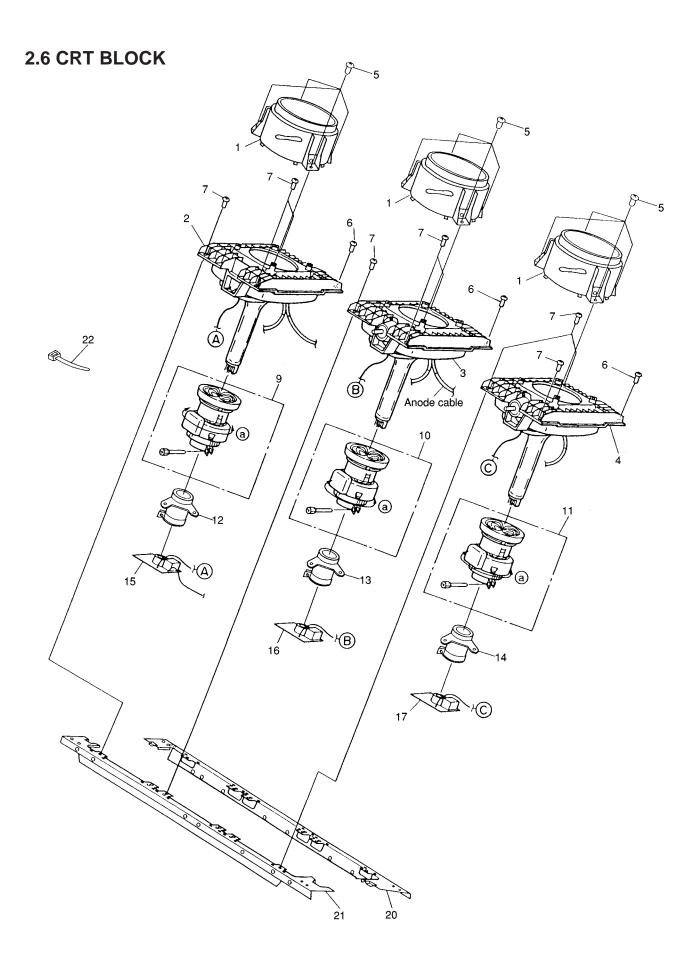
(1) REAR VIEW (1/2) PARTS LIST

Mark	No.	Description	Part No.
	3	Mirror Case 51 Screw Screw Rear Cover Blind Sheet	AME2296 ABA1240 PYC40T140FZB AMM2929 AEC1622
NSP	-	Mirror Case Coshion Screw Screw Cabinet Wire Holder Screen Cushion 64	AEC1627 ABZ30P100FZK ABA1269 AEC1263 AEC1778
		Rear Cover (DTV) Assy Rear Cover Sheet Screw Screw	ANE1577 AMR3135 PMB40P160FZB BCZ30P080FZK



(1) REAR VIEW (2/2) PARTS LIST

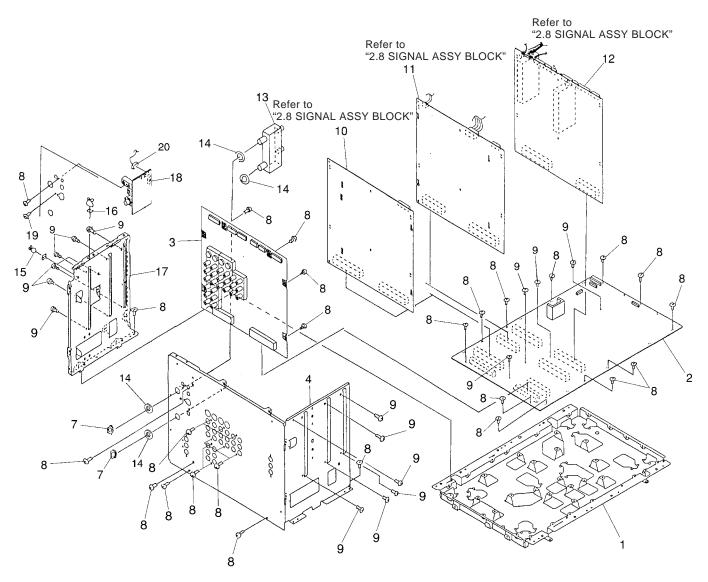
Mark	No.	Description ()	Part No.	Mark No.	. Description	Part No.
☆	1	CRT Service Assy 64B	AWY1415	OTHERS	·	
☆		CRT Service Assy 04B	AWY1413 AWY1413		1P Lead Wire (J3)	ADX2231
☆☆☆		CRT Service Assy 64R	AWY1414		1P Lead Wire (J4)	ADX2232
☆	4	Lens Assy	AMR3121		1P Lead Wire (J5)	ADX2233
	5	Screw	FBT40P120FZK		1P Lead Wire (J6)	ADX2289
	_	0	A.D.A.4400		1P Lead Wire (J7)	ADX2290
	6 7	Screw Screw	ABA1168 AMZ40P080FZK		1P Lead Wire (J8)	ADX2291
NSP	8	CRT Front Frame	ANA1541		4P Housing Wire (J2)	ADX2484
NSP		CRT Rear Frame	ANA1542		Wire Harness A (J10)	ADX2485
		Screw	ACZ40P080FMC		Wire Harness B (J11)	ADX2487
NSP	11	CRT Front Holder	ANG2118			
NSP		CRT From Holder	ANG2110 ANG2119			
INOI		Screw	ABA1240			
		Cord Holder	AEC1257			
NSP		Tube Label	AAX2497			
	16	Rivet	AEC-441			
NSP	16 17	CRT Stand Holder R	ANA1497			
NSP		CRT Stand Holder L	ANA1496			
1101		Screw	PMB50P250FZB			
		Special Screw	ABA1121			
NSP	24	Dook Cover Donal	A.M.M.2020			
NOF	21	Back Cover Panel Back Cover Cushion	AMM2939 AEC1779			
	23	Screw	ABA1241			
NSP		Cabinet Wire Holder	AEC1263			
	25	Screw	ABA1210			
NSP	26	Fixing Metal	ANG1958			
1401		SR Assy	AWZ6340			
NSP	28	Tray	AMR2563			
NSP	29	Solder Warning Label	AAX2672			
NSP	30	Warning Label (KC)	AAX1797			
NSP	31	AC Cord Holder A	ANG2307			
NSP		Bind Holder	AEC1785			
		Ferrite Core	ATX1033			
Λ	34	AC Power Cord	ADG1180			
NSP	35	AC Cord Holder B	ANG2311			
	36	Wire Harness C (J14)	ADX2491			
\triangle	37	AC Power Cord B	ADG1181			
∠!∆		Screw	BBZ30P080FZK			
	39	Screw	ABA1271			
	40	Ferrite Core	ATX1031			
NSP	41	Nylon Clamp 18N	AEC1789			
1401		Nylon Binder	AEC-093			
	43	1P Lead Wire (J1)	ADX2505			
	44	Screw	PMB40P250FZB			



(1) CRT BLOCK PARTS LIST

Mark	Mark No. Description		Part No.
$^{\overset{\wedge}{\wedge}}$	2	Lens Assy CRT Service Assy 64R CRT Service Assy G CRT Service Assy 64B Screw	AMR3121 AWY1414 AWY1413 AWY1415 AMZ40P080FZK
	6 7 8	Screw Screw	FBT40P120FZK ABA1168
\triangle		Deflection Yoke (L1) Deflection Yoke (L2)	ATL1136 ATL1136
<u>^</u>	12 13	Deflection Yoke (L3) VM Coil (L4) VM Coil (L5) VM Coil (L6) R.CRT DRIVE Assy	ATL1136 ATL1137 ATL1137 ATL1137 AWZ6344
NSP	17 18 19	G. CRT DRIVE Assy B. CRT DRIVE Assy	AWZ6345 AWZ6346 ANA1542
NSP	21 22	CRT Front Frame 62 Nylon Binder	ANA1541 AEC-093

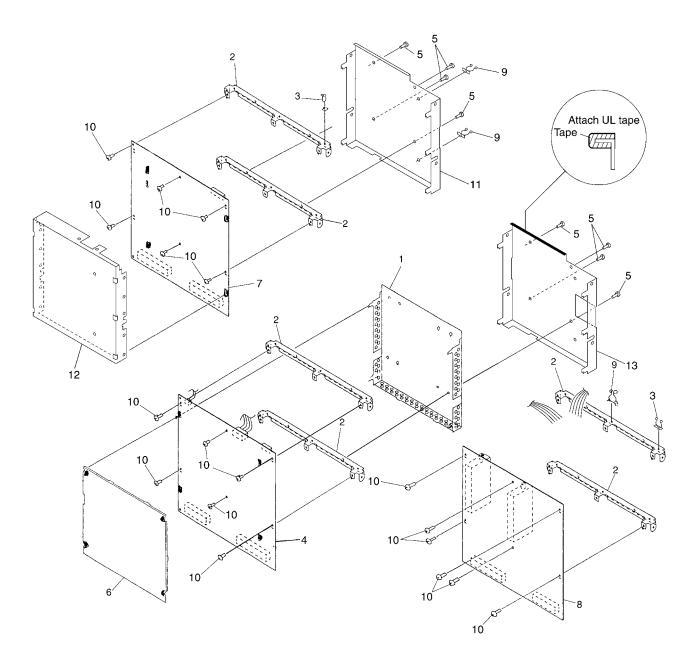
2.7 VIDEO BLOCK



(1) VIDEO BLOCK PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	Video Chassis	ANA1584		11	SIGNAL Assy	AWV1717
	2	VIDEO Assy	AWV1716		12	SUB VIDEO Assy	AWV1718
	3	AV / IO Assy	AWV1714		13	RF Switch	AXF1098
	4	Rear Panel	ANC2321		14	Washer	WAXOF160N100
	5			NSP	15	Lead Clamper M	AEC1611
	6			NSP	16	Cable Clip	AEP-214
	7	Nut	ABN-087	NSP	17	PCB Side Holder	ANG2305
	8	Screw	BBZ30P080FZK		18	SR BNC Assy	AWZ6342
	9	Screw	BBZ30P080FCU		19	Screw	BCZ30P080FZK
	10	TUNER u-COM Assy	AWV1715		20	4P Housing Wire (J13)	ADX2490

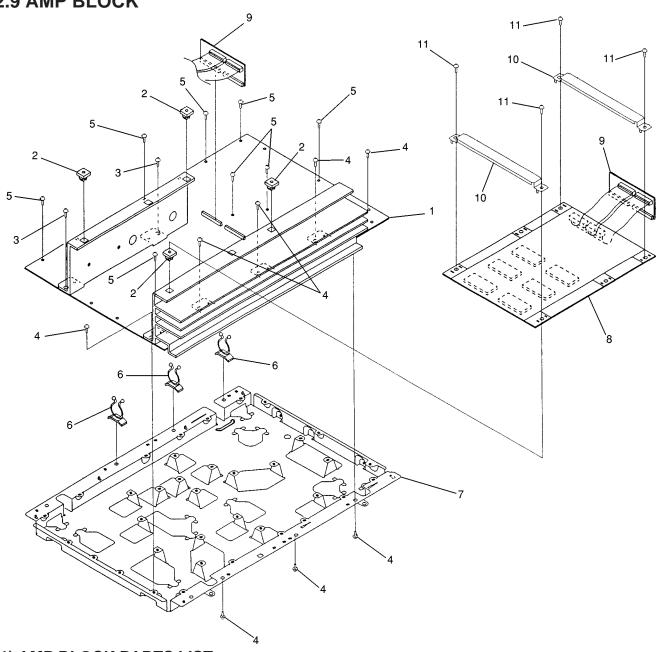
2.8 SIGNAL ASSY BLOCK



(1) SIGNAL ASSY BLOCK PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NOD	1	Shield Cover	ANK1562		11	Shield Front Cover B	ANK1592
NSP		PCB Sub-Frame	ANG2304		12	Shield Rear Cover B	ANK1596
NSP		Lead Clamper M	AEC1611		13	Shield Front Cover A	ANK1591
	4	SUB VIDEO Assy	AWV1718				
	5	Screw	BBZ30P080FCU				
NSP	6	Analog Shield B	ANK1537				
	7	SIGNAL Assy	AWV1717				
	8	TUNER u-COM Assy	AWV1715				
NSP	9	Cable Clip D3M	AEC1783				
	10	Screw	ABZ30P080FCU				

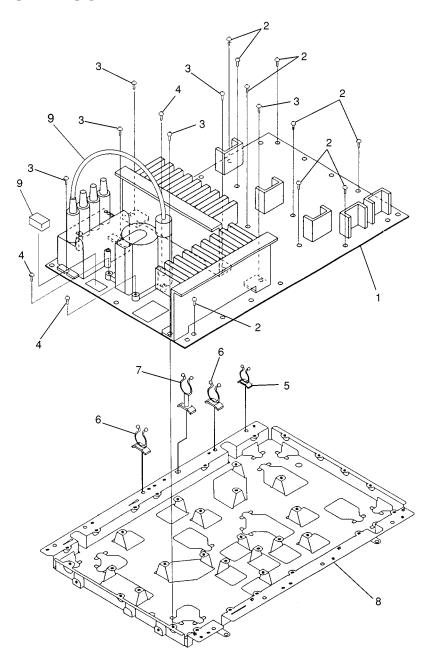
2.9 AMP BLOCK



(1) AMP BLOCK PARTS LIST

Mark	No.	Description	Part No.
	1	AMP Assy	AWV1712
	2	Grommet	AEC1418
	3	Special Screw	ABA1099
	4	Screw	ABZ30P100FZK
	5	Screw	BBZ30P080FZK
NSP	6	Cable Clip D3M	AEC1783
NSP	7	AMP Chassis	ANA1585
	8	CONVER . DAC Assy	AWZ6333
	9	CONNECTOR Assy	AWZ6335
NSP	10	Head Sink Holder	ANG2306
	11 12	Screw	VPZ40P120FZK

2.10 DEFLECTION BLOCK

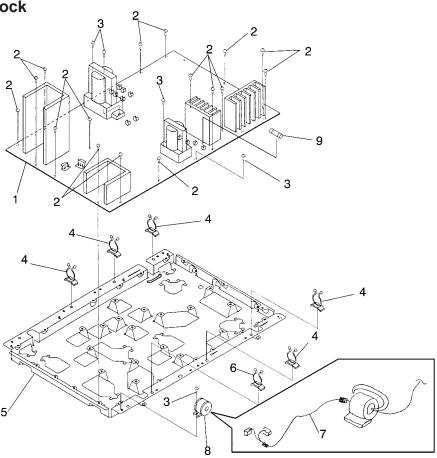


(1) DEFLECTION BLOCK PARTS LIST

Mark	No.	Description	Part No.
☆	1	DEFLECTION SERVICE Assy	AWV1731
	2	Screw	BBZ30P080FZK
	3	Screw	ABZ30P100FZK
	4	Screw	VBZ30P200FMC
NSP	5	Cable Clip D3S	AEC1782
NSP	6	Cable Clip D3M	AEC1783
NSP	7	Cable CliP	AEC1325
NSP	8	DF Chassis	ANA1583
	9	Shield Case	ANK1510

2.11 POWER SUPPLY / AC IN BLOCK

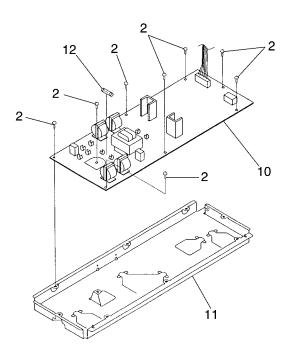




AC IN Block

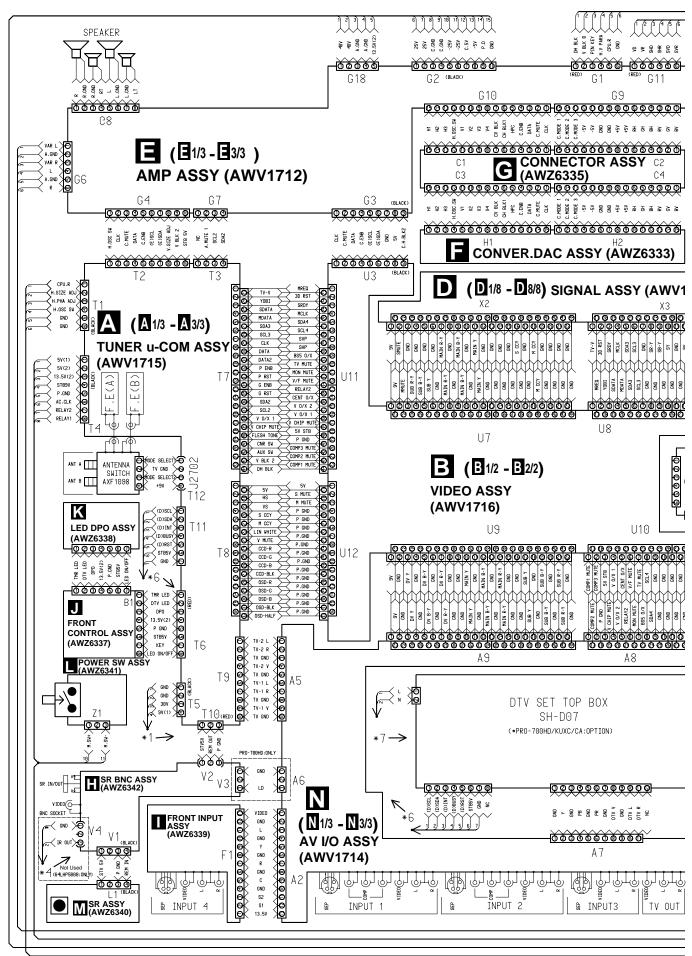
(1) POWER SUPPLY / AC IN BLOCK PARTS LIST

Mark	No.	Description	Part No.
	1	POWER SUPPLY Assy	AWV1710
	2	Screw	BBZ30P080FZK
	3	Screw	ABZ30P100FZK
NSP	4	Cable Clip D3S	AEC1782
NSP	5	PS Chassis	ANA1582
NSP	6 7	Cable Clip D3M Wire Harness D (J15)	AEC1783 ADX2489
	8	Ferrite Core	ATX1033
\wedge	9	Fuse (6.3A/125V)	REK1085
2:3	10	AC IN Assy	AWZ6353
NSP	11	LF Chassis	ANA1586
\triangle	12	Fuse (500mA/125V)	AEK1010



PRO-700HD

3. SCHEMATIC DIAGRAM 3.1. OVERALL CONNECTION DIAGRAM



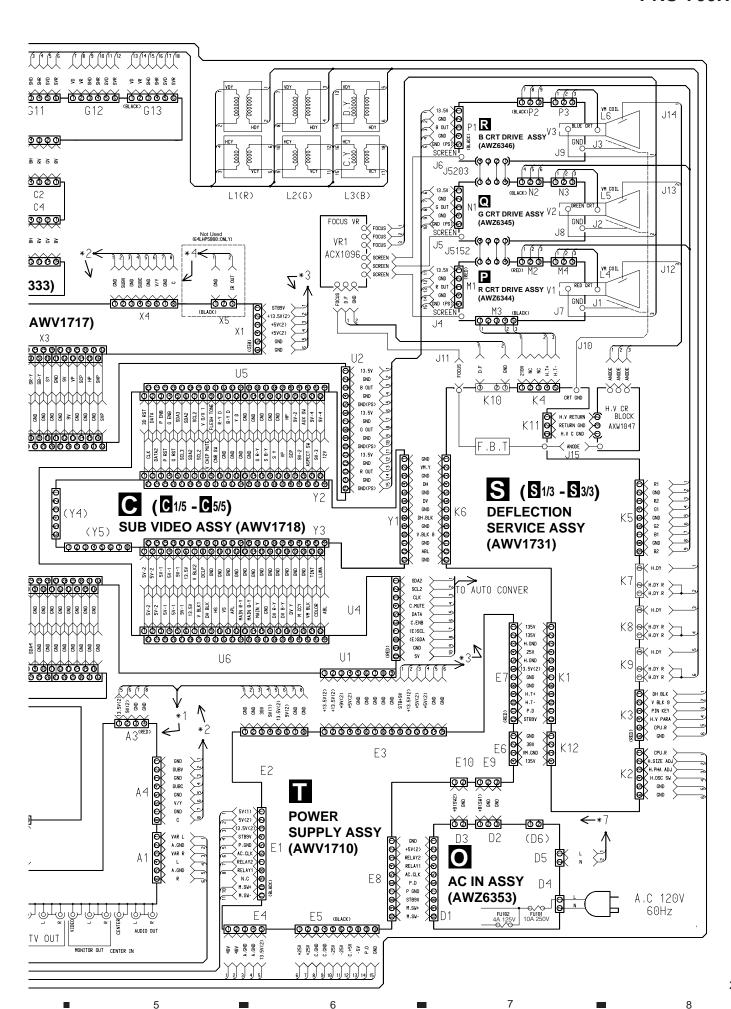
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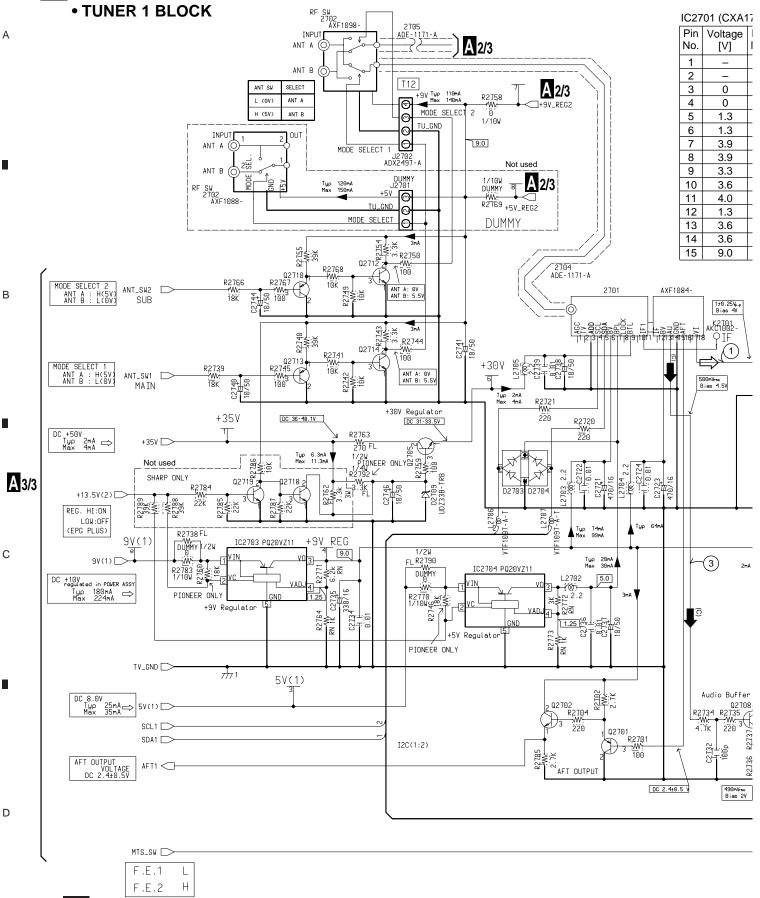
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5

A TUNER u-COM ASSY (1/3) (AWV1715)

2

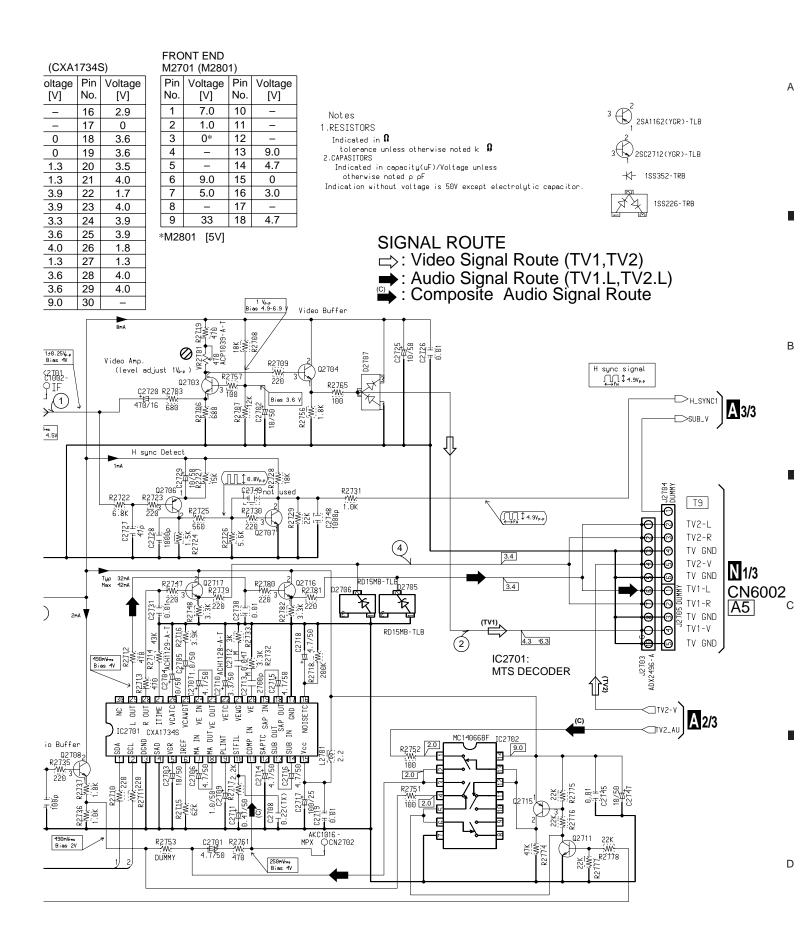


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4 A 1/3

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3

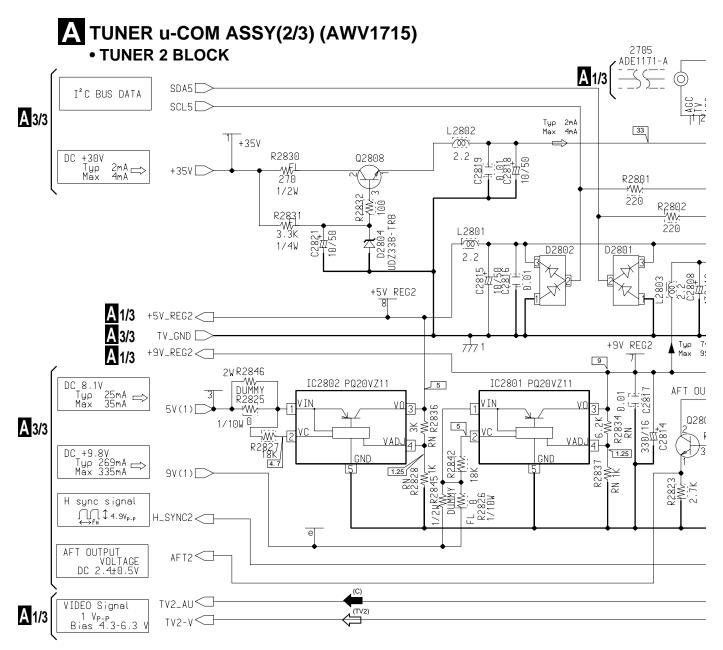


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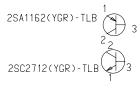
2



3

1.RESISTERS indicated in 1/2W,1/4W,1/10W,1WFL,2WFL 5% tolerance unless otherwise noted K; \$\mathbb{\Omega}\$, M; \$\mathbb{\Omega}\$\$ (F)+1% , (G)+2% , (K)+10% , (M)+20% tolerance

2.CAPACITORS indicated in capasity (uF)/(V) unless otherwise noted pF indicated without voltage is 50V except electrolytic capacitor





A 2/3

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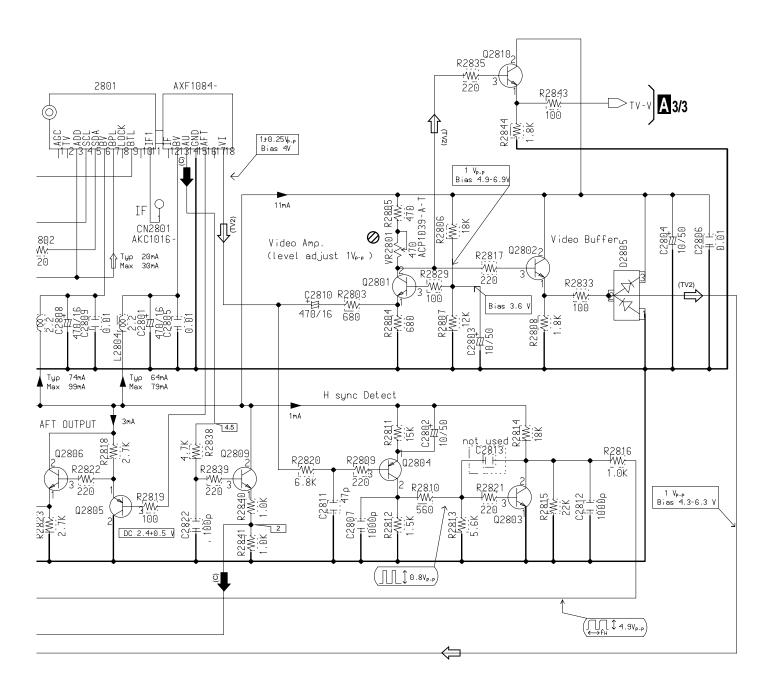
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SIGNAL ROUTE

(TV2)

: Video Signal Route (TV2)

: Composite Audio Signal Route

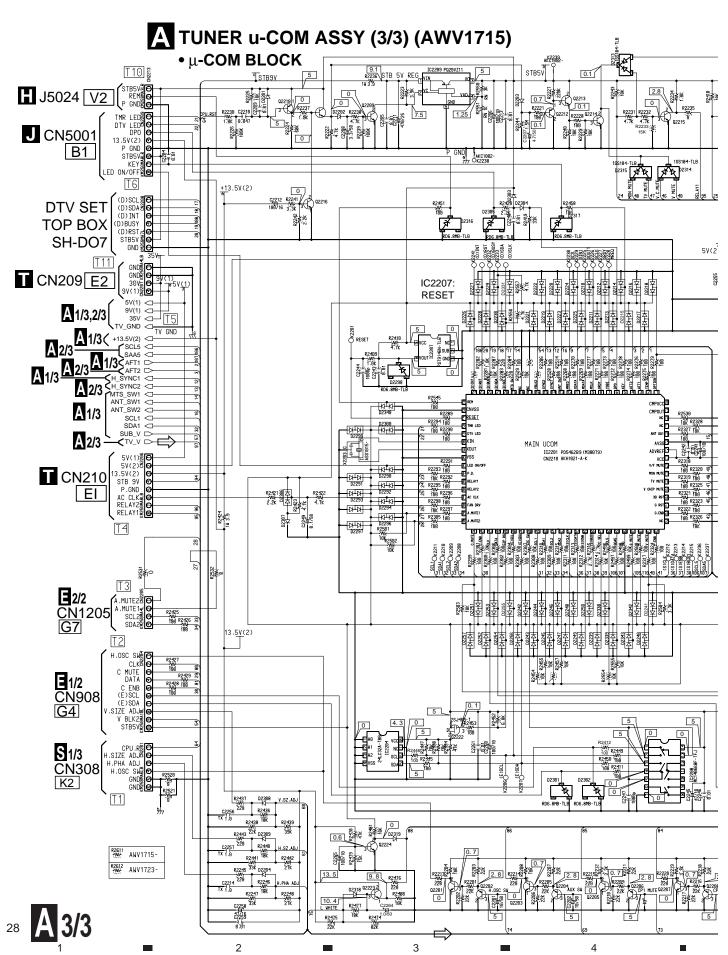
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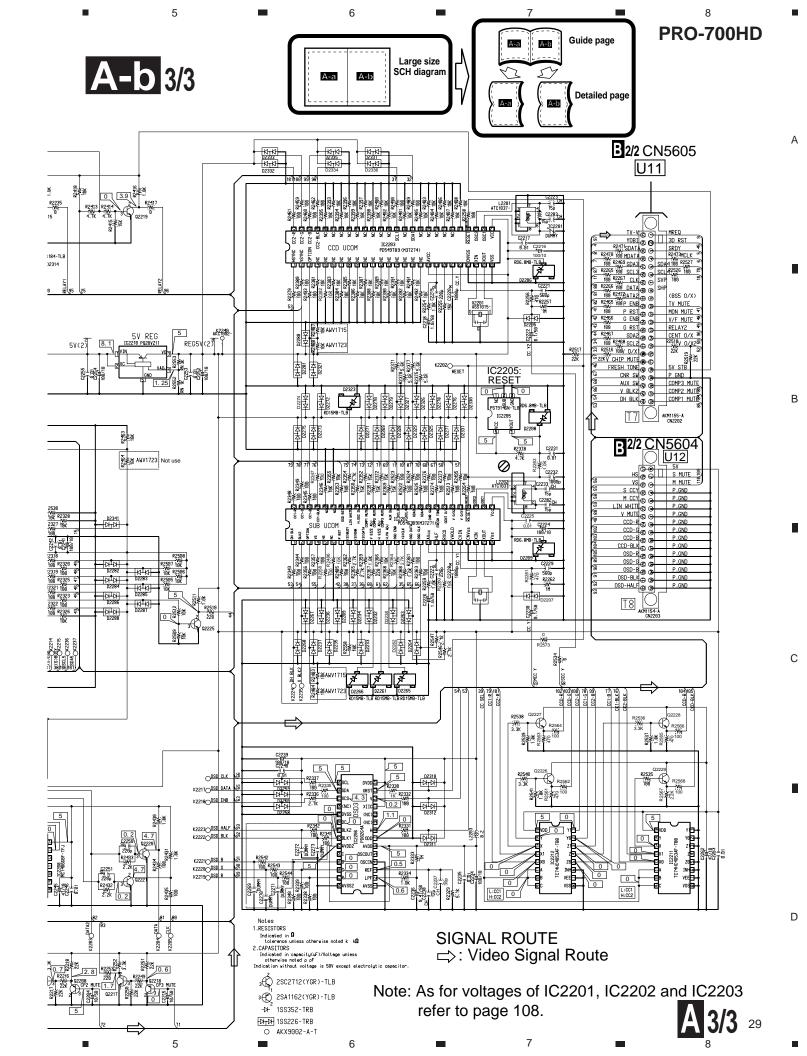
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3.4 TUNER u-COM ASSY (3/3)







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30 **A-a** 3/3

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В

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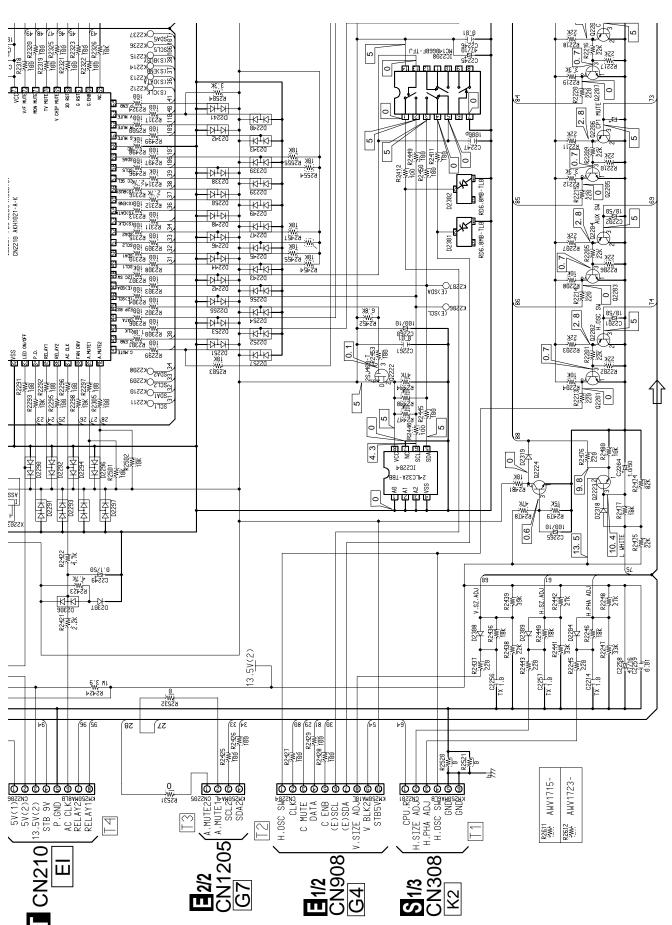
3/3 A-a A-b 3/3

В

С

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A-a 3/3 31

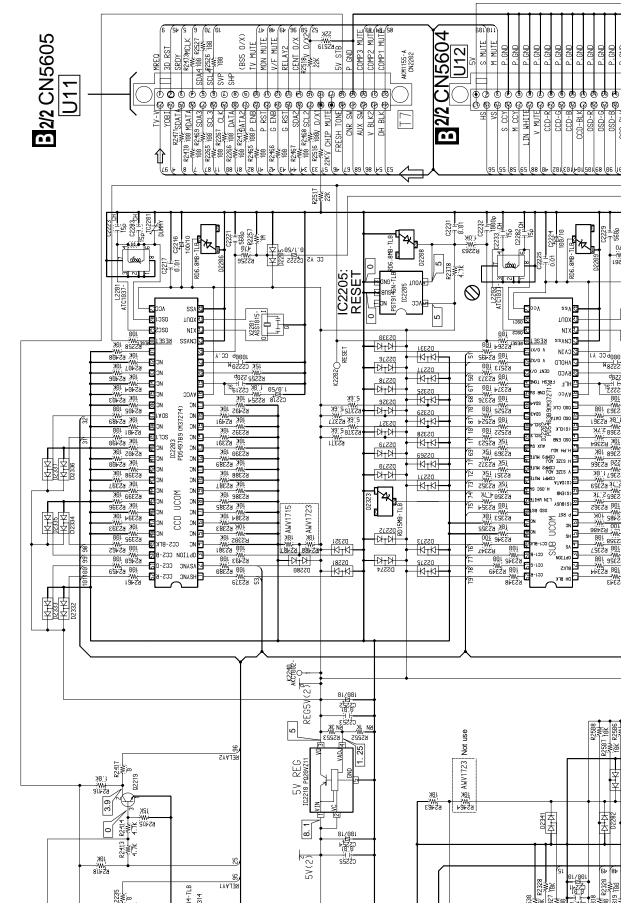
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Α

В

С

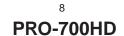
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32 **A-b** 3/3

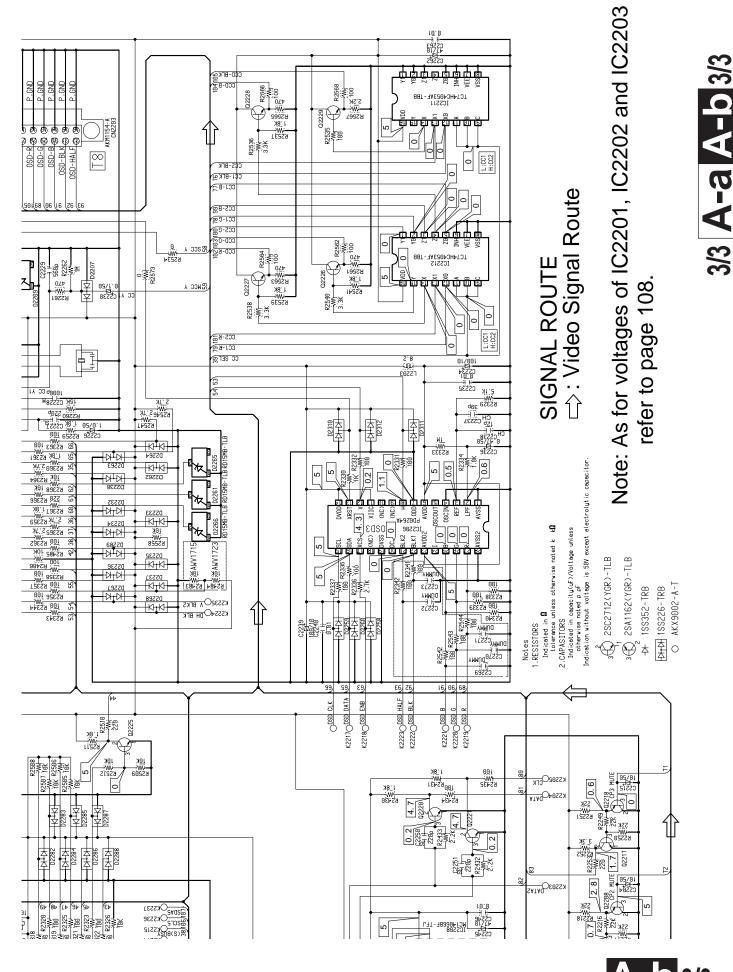
2



В

С

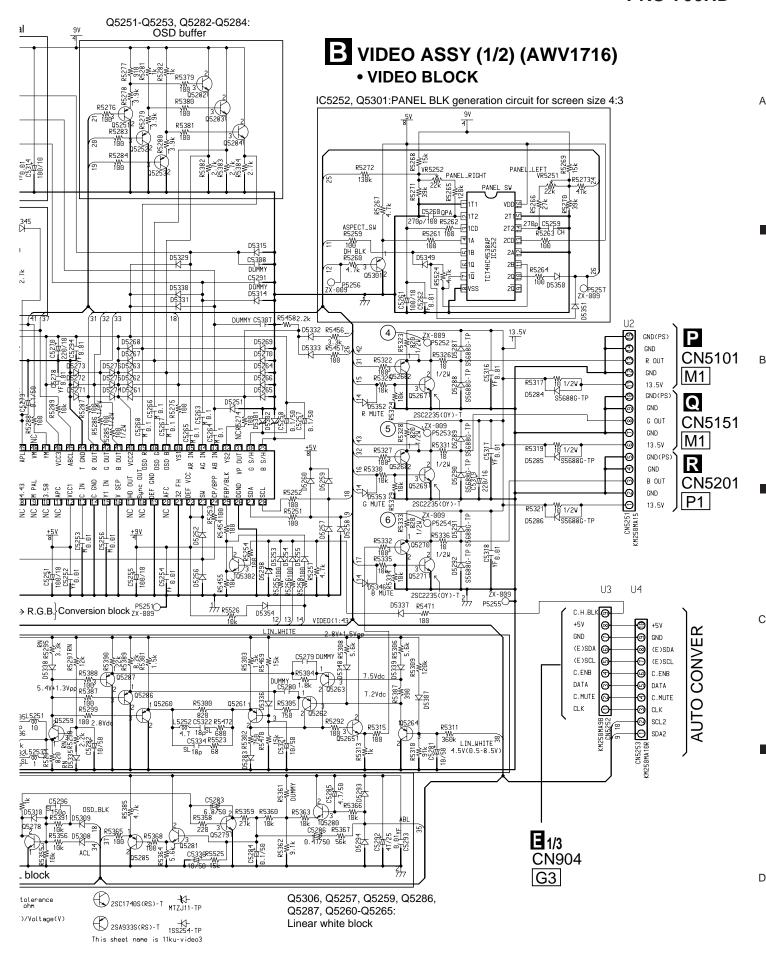
D



A-b 3/3

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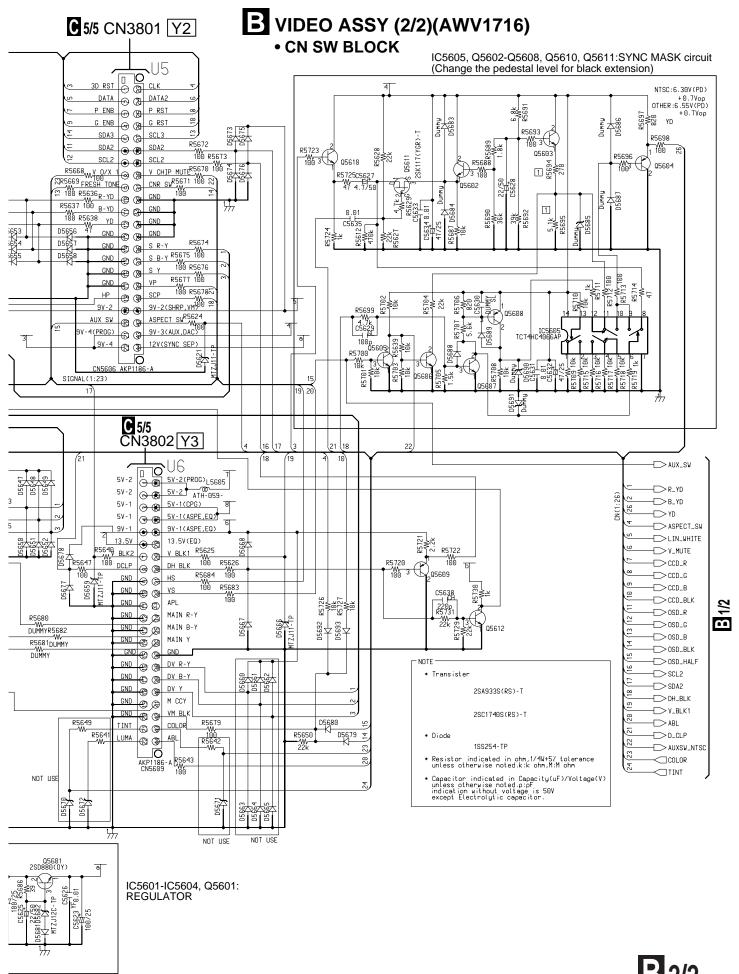
B 1/2 35

5

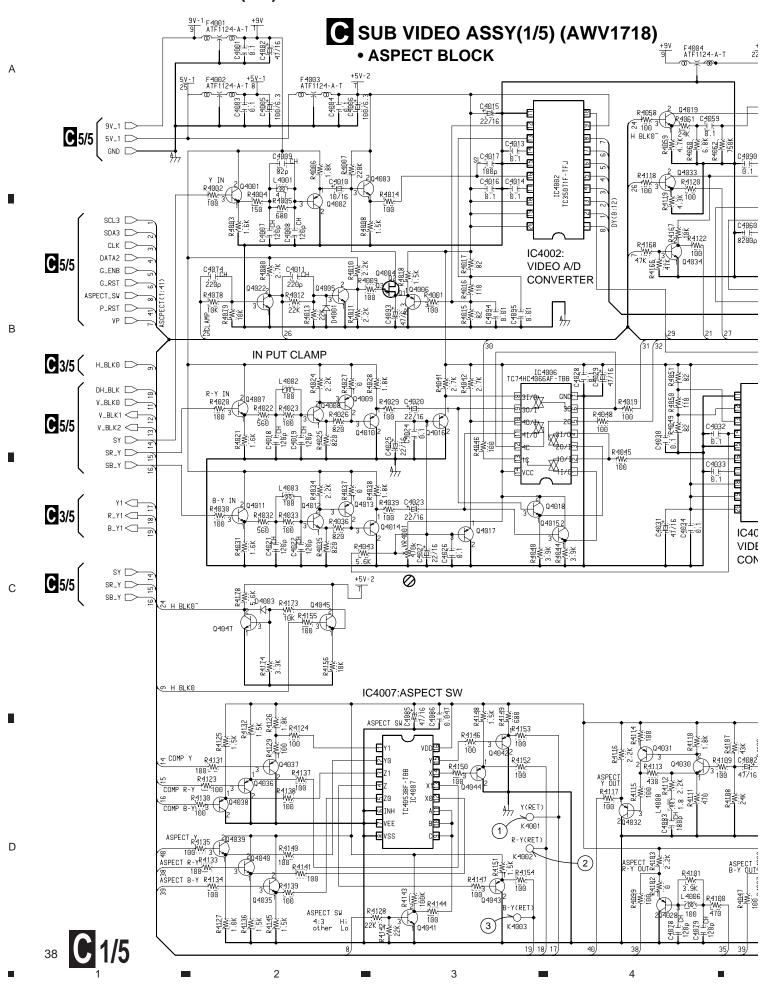
PRO-700HD 3.6 VIDEO ASSY (2/2) **D** 8/8 CN7800 X3 N 3/3 CN6404 A8 A 3/3 CN2202 T7 CN5602 AKP1185-A U 1 () MREQ STV-V TV-V O O MREQ 0 8 8 3D RST 🕞 🐯 YOBI 3D RST O O YOBI 6 9 GND G G SRDY @ SDATA SRDY O O SDATA MCLK & MDATA
SDA3 & SDA3 MCLK (MDATA **® ®** GND O O SDA4 & SDA3 GND 🔊 🖨 SCL3 @ SCL3 GND 🗑 😉 GND O GND R5605 100 SHP @ @ R5663 R5664 100 S R-Y O O GND €0 ⊕ 100 (BSS 0/X) @ DATA2 SDA4 © @ S B-Y O G GND √W 100 R5665 (BS5 0/X) © O TV MUTE (3) S Y O O GND TV MUTE P ENB MON MUTE O O MON MUTE (🖨 (GND O V/F MUTE RELAY2 & G V/F MUTE 🕲 🕃 **(9-€**) 9V CENT 0/X D5653 D5654 VP O O GND ^{V 0/X 2} | ⊕ ⊖ | RELAY2 @ G RST V CHIP MUTE @ @ CENT O/X P GND @ O V 0/X 2 @ @ HP O O GND F COMP3 MUTE OMP2 MUTE D COMP1 MUTE V D/X 1 (2) (8) V D/X 1 V CHIP MUTE S V CHIP MUTE P5652 100 € ōLŪ 5V STB FLESH TONE 100 R5653% P GND @ G CNR SW COMP3 MUTE & AUX SW R5648 COMP2 MUTE S S V BLK2 COMP1 MUTE S THE BLK _____ AKP1186-A CN5605 SIGNAL (1:23) 2/3 CN6201 Α9 AKP1185-A 000 5V CN5604 R5658ø SMUTE O O HS SUB R-Y (2) (3) MMUTE O O VS R5659 100 R GND S CCY100 R5660 SUB B-\R563447

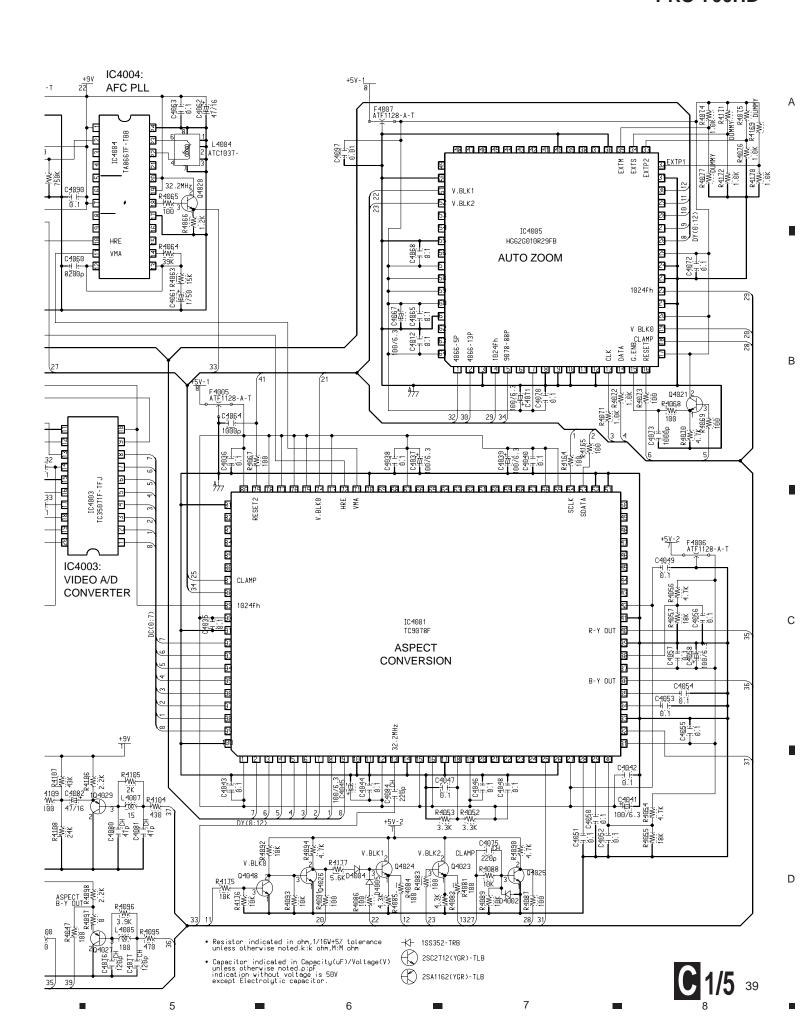
SUB Y 47 R5635 SUB B-Y GND GND GND & SUB Y D5642 D5641 R5630 R44 D5643 47 GND @ ® GND SUB Y D5644 D5643 * 4 / R5631 47 MAIN R-Y 👸 📆 MAIN R-GND ⊛ (} CCD-G R5616 100 MAIN B-Y 🕳 🕳 MAIN B-MAIN R-Y CCD-B 100 R5617 GND 😩 🛞 GND MAIN Y MAIN Y MAIN B-Y D5609 D5612 GND GND GND ⊕ (3H R568 © C5636 © D5614 D5617 GND (C) (S) GND MAIN Y C5637 H ISL L5606 33p 22 CND 🕲 🛞 GND P GND G OSD-BLESG22 100
P GND G OSD-BLESG22 100
OSD-BLESG23 100
P GND G OSD-HALE00 RS623
W DS622NTZJ15-TP 100
P DS622NTZJ15-TP 100 GND GND S CCY @ ® DV R-Y ® ⊙ D5613 D5616 ⊕ (3 GND DV B-Y M CCY B M CCY **⊕** →D5633 D5626 D D5623 D5632 GND @ GND GND D5634 DV Y S SH GND GND (A) (◆) GND GND ND5639 N D5636 A 3/3 D5631 D5629 D5638 9V 7/7 GND 8 GND CN2208 T8 CN5608 AKP1186-A JŌ, L5602 ATH-059 1] 13.5V (CRT U1 2 13.5V(SUB VIDEO **D** 6/8 NOT R5602 3 9V (PROGRESSIVE CN7600 L5601 L5603 | L5603 | L5604 | ATH-059 -9V (VIDEO X2 ATX1008 - A - T 13.5V(2) E3 9V(SHARPNESS) 13.57(2) VOU VIN VOU 90(2)00 6 9V(ASPECT) 57(2) **B** 1/2 7 5V (PROGRESSIVE: GND 🕝 GND @ NJM7805 5v (ASPECT GND O ۷OU GND 1 GND(COMMON) R5603 GND (CRT) 2 3

В

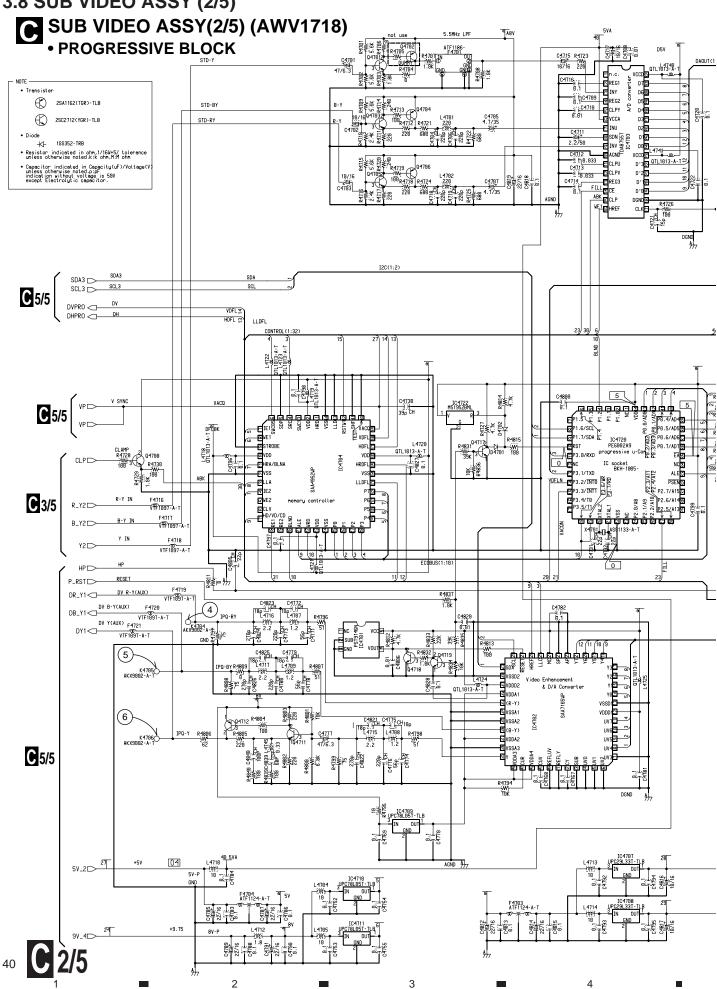


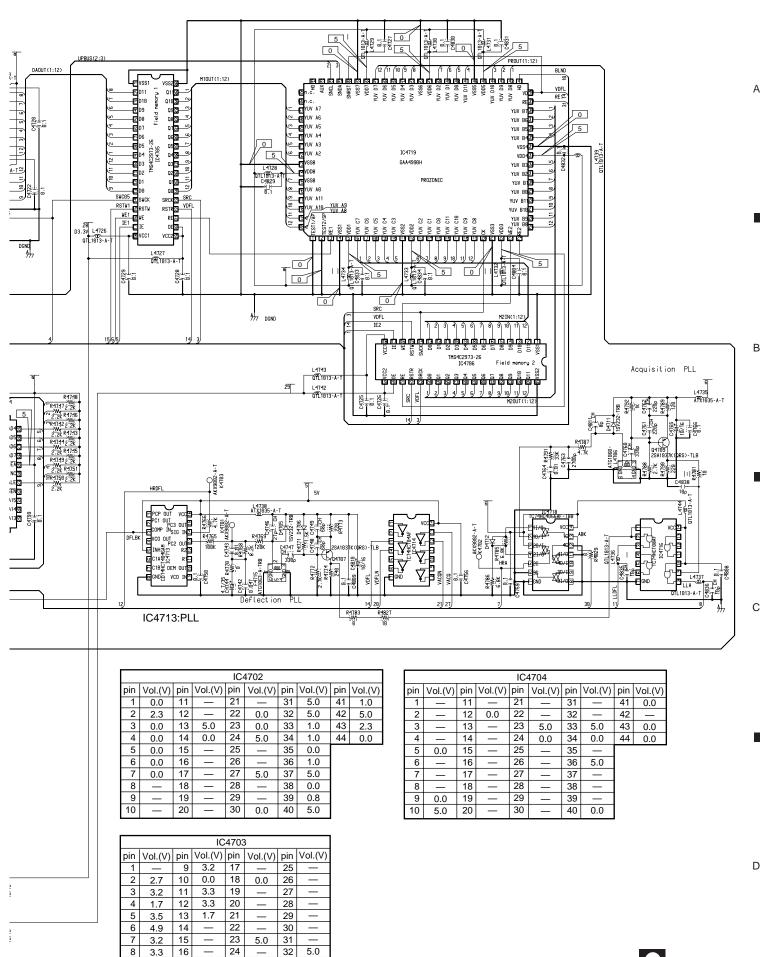
3.7 SUB VIDEO ASSY (1/5)



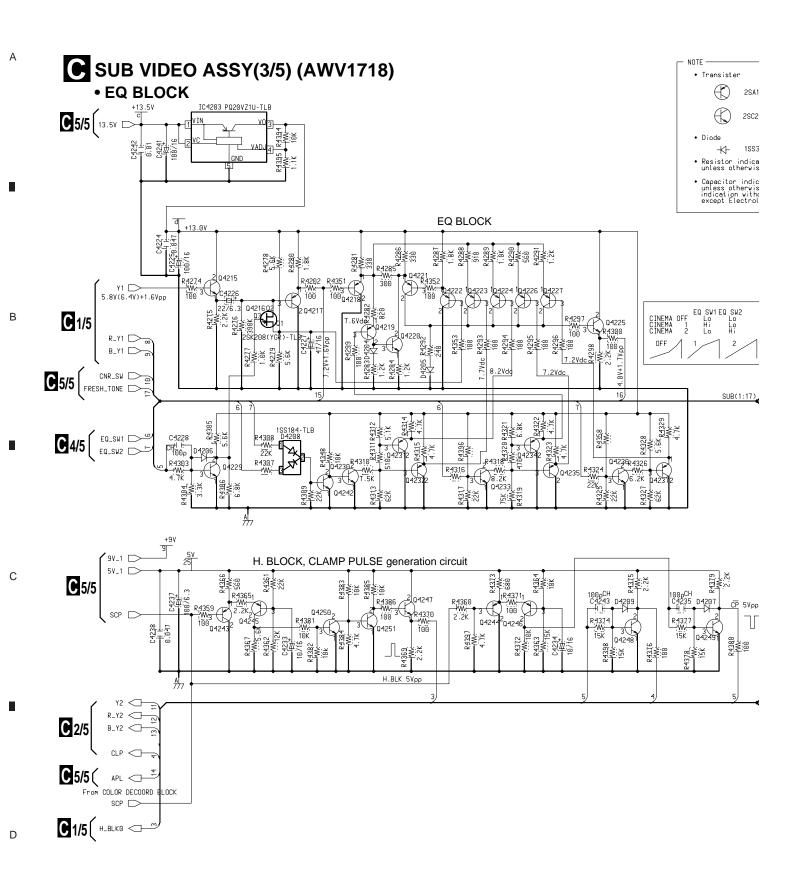


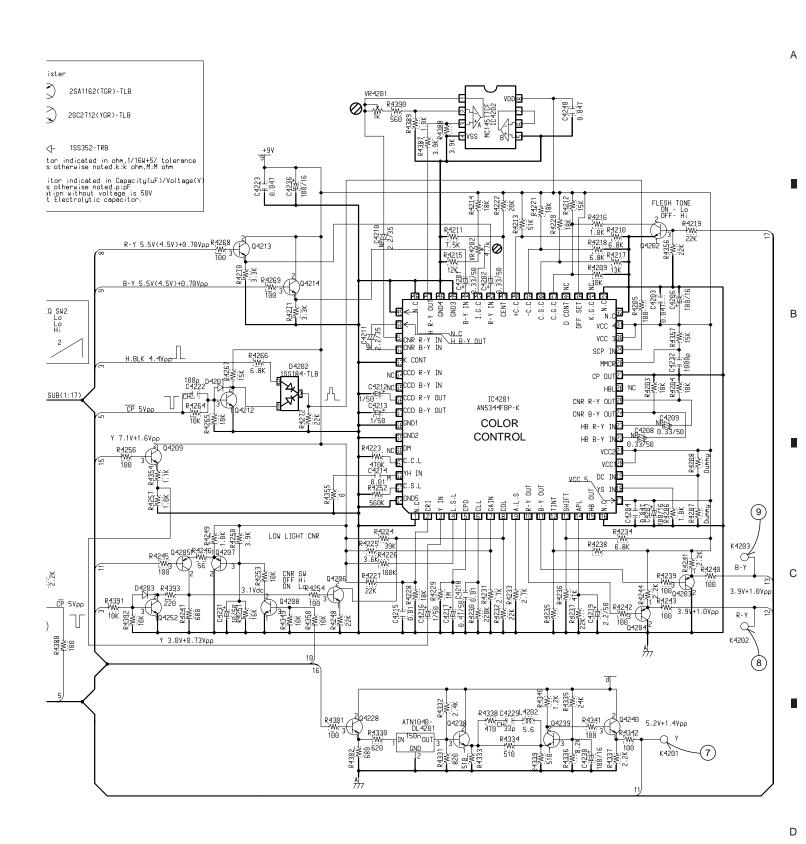
3.8 SUB VIDEO ASSY (2/5)





C 2/5 41

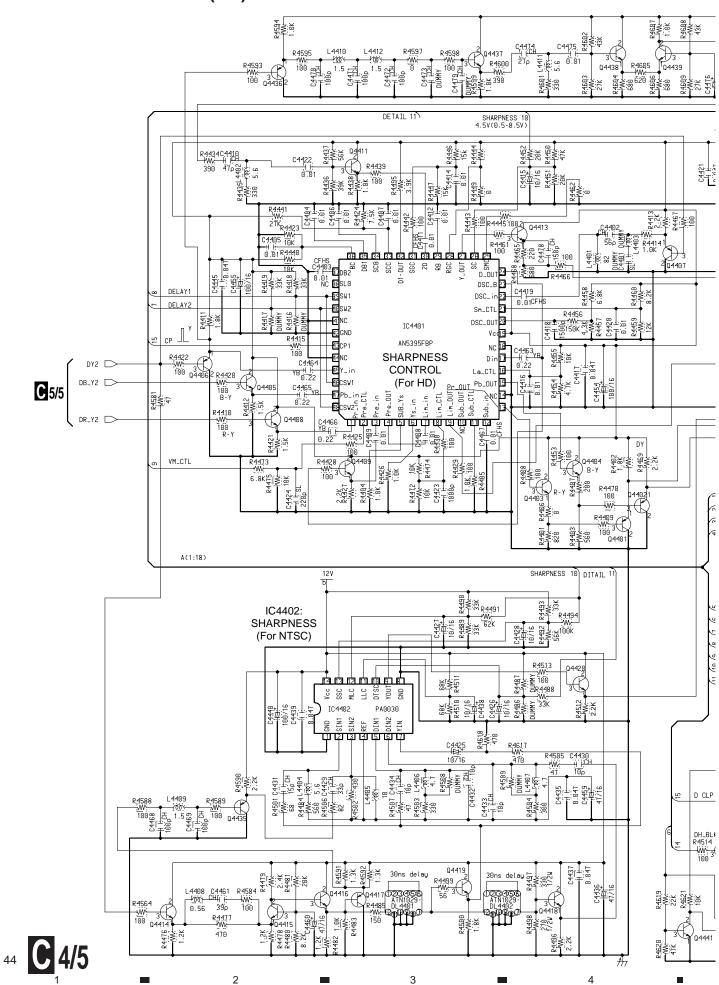


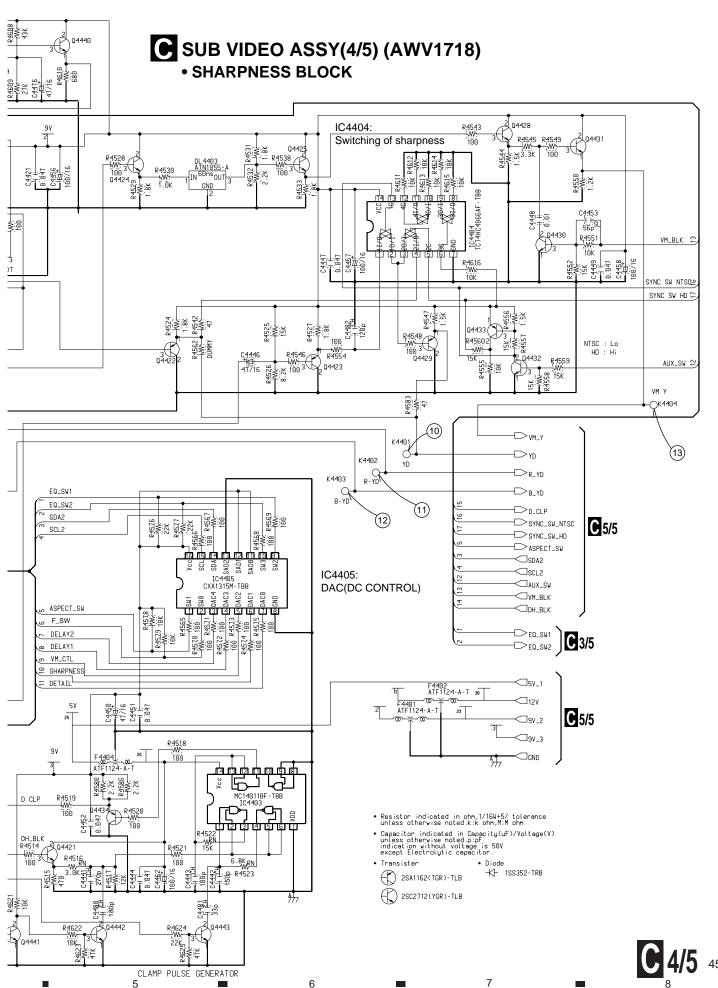


C 3/5 43

С

D

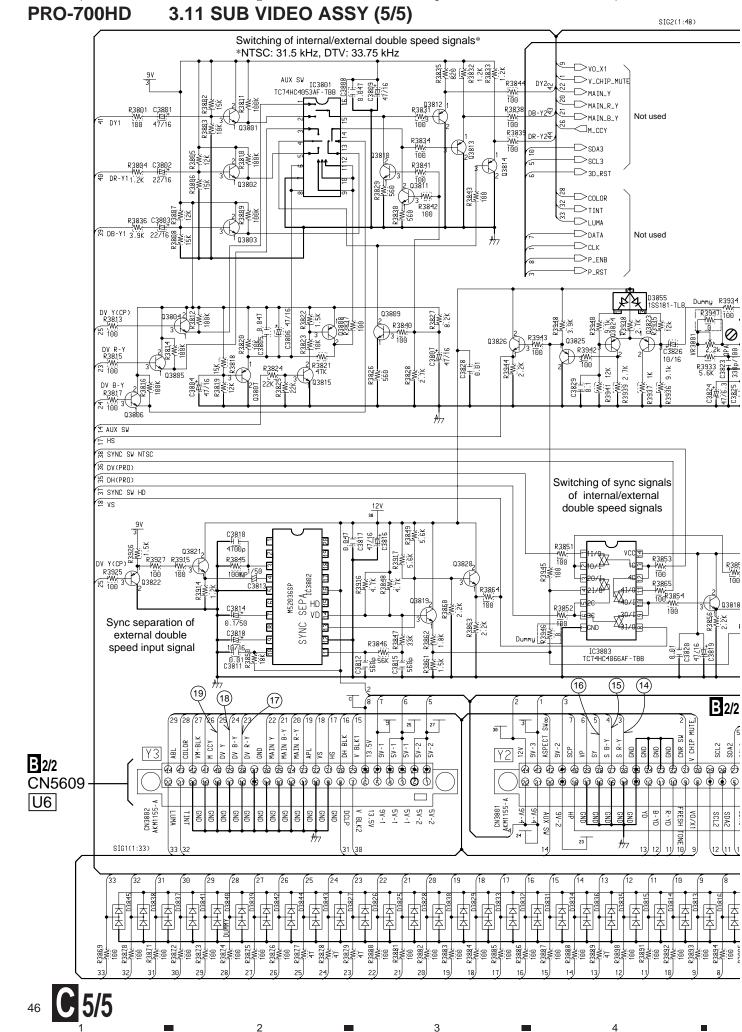




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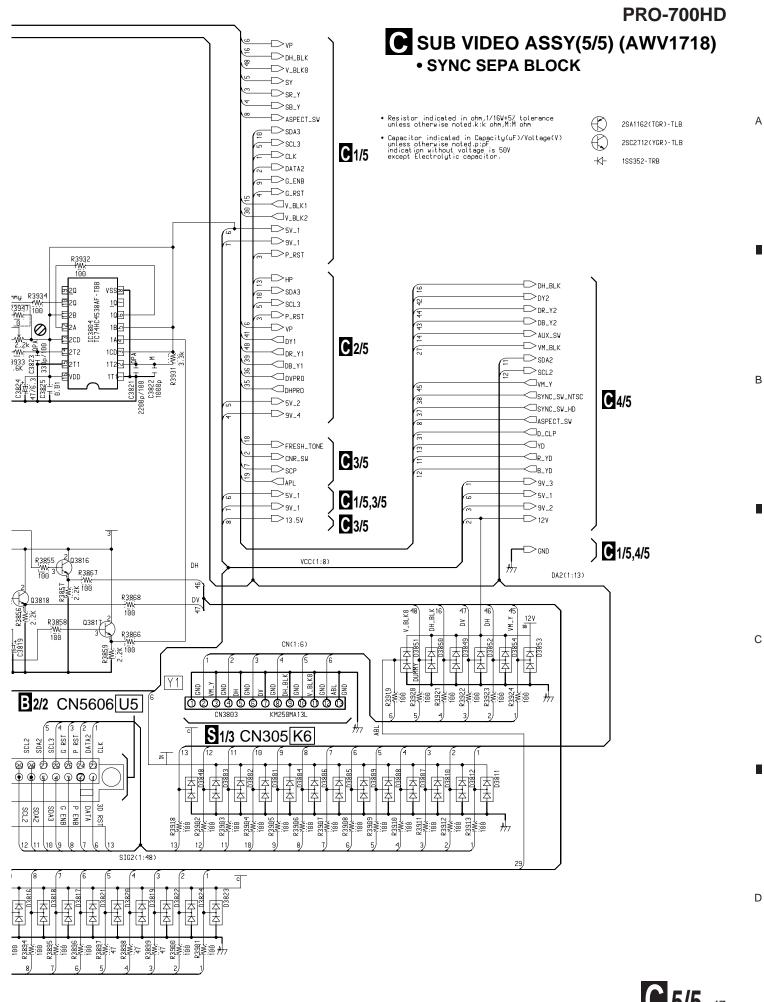
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D



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D



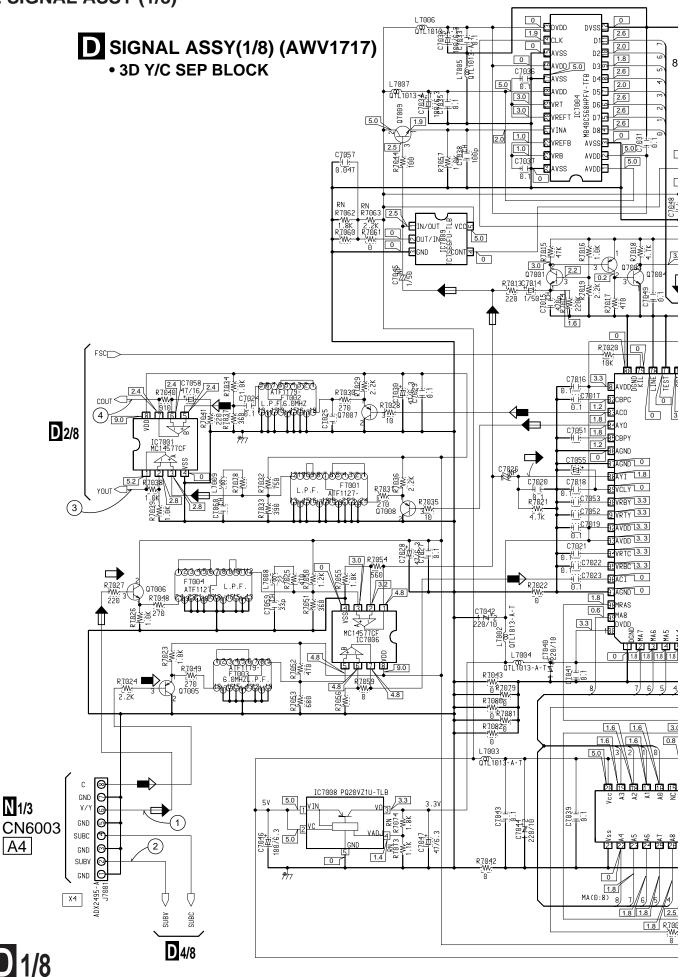
D

В

N 1/3

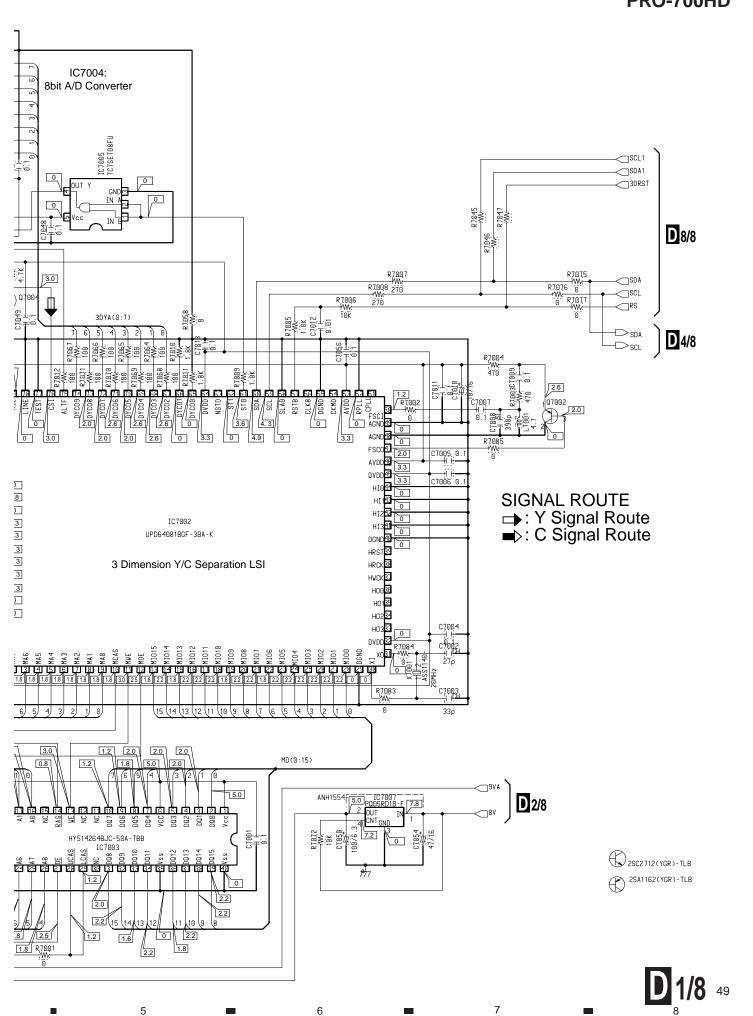
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3.0

2.6

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16

0.2

1.2

0

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32

2.0

2.0

3.5

3

38

39

40

3.6

0

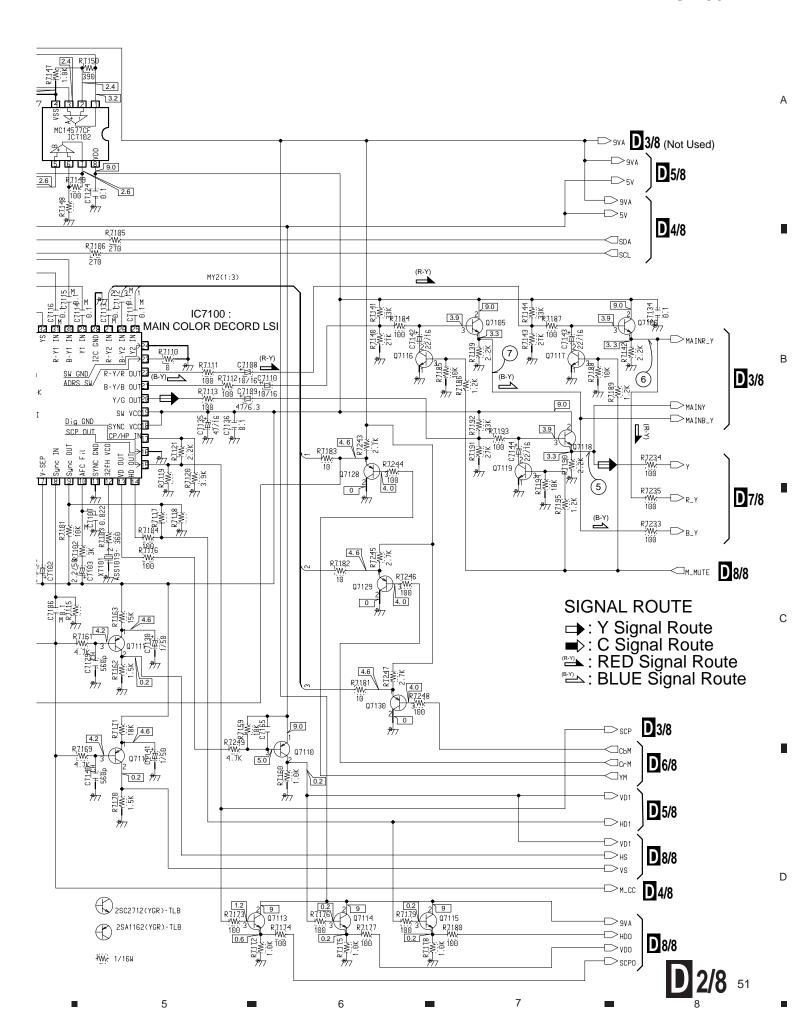
2.0

46

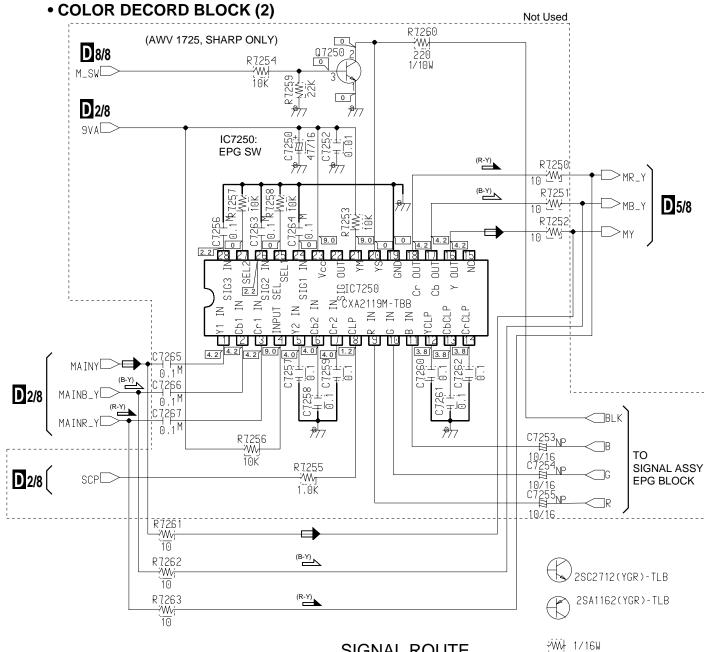
47

2.8

2.6



D SIGNAL ASSY(3/8) (AWV1717)



SIGNAL ROUTE

: Y Signal Route: RED Signal Route ^{®-y} : BLUE Signal Route

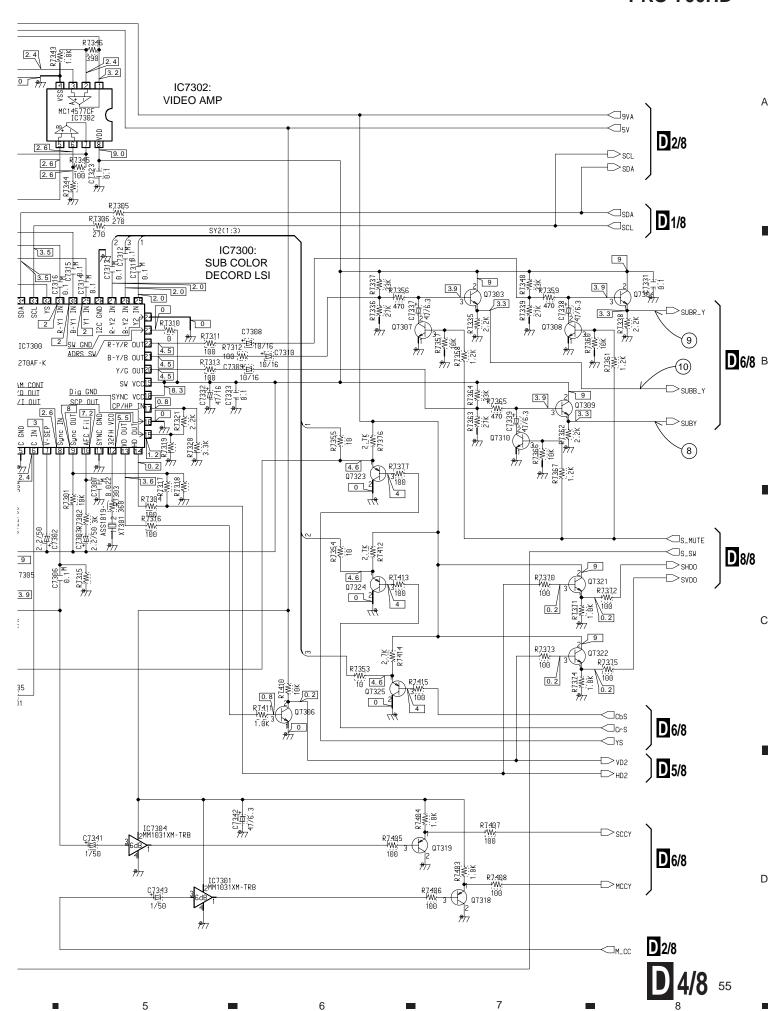
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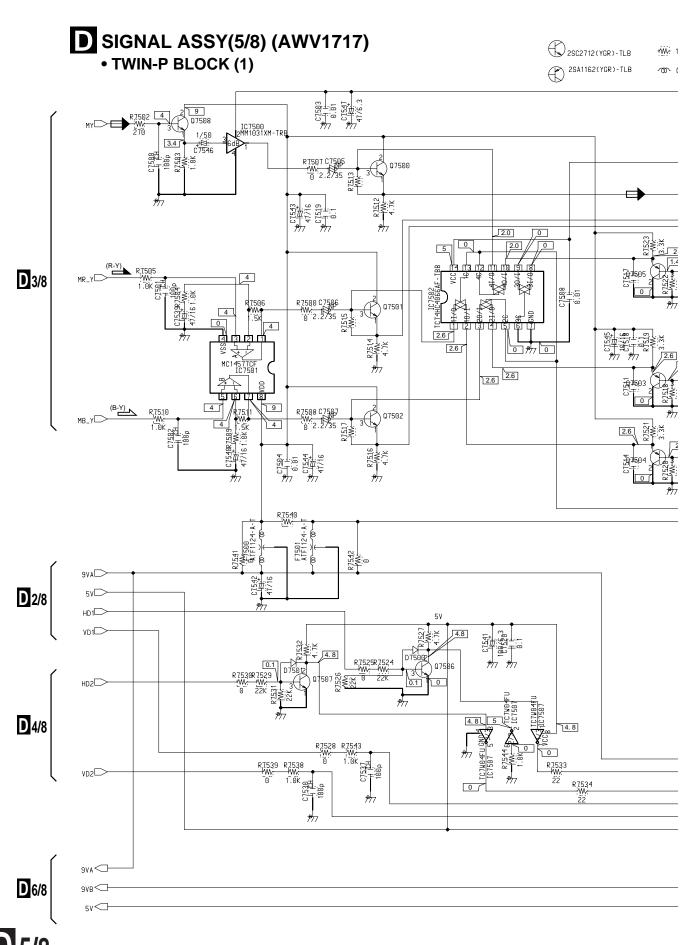
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3.16 SIGNAL ASSY (5/8)



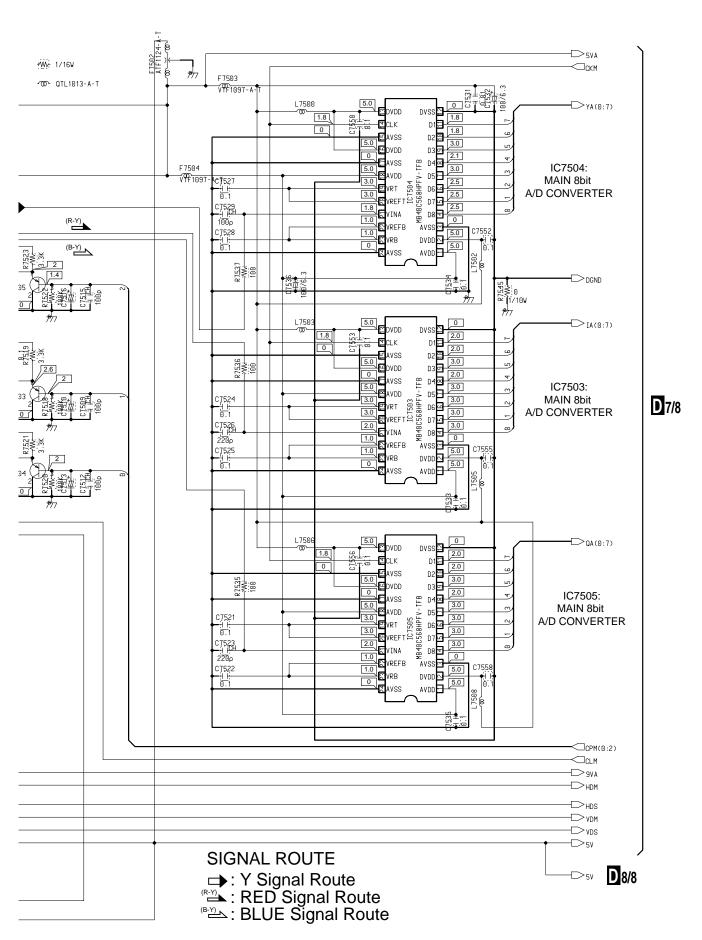
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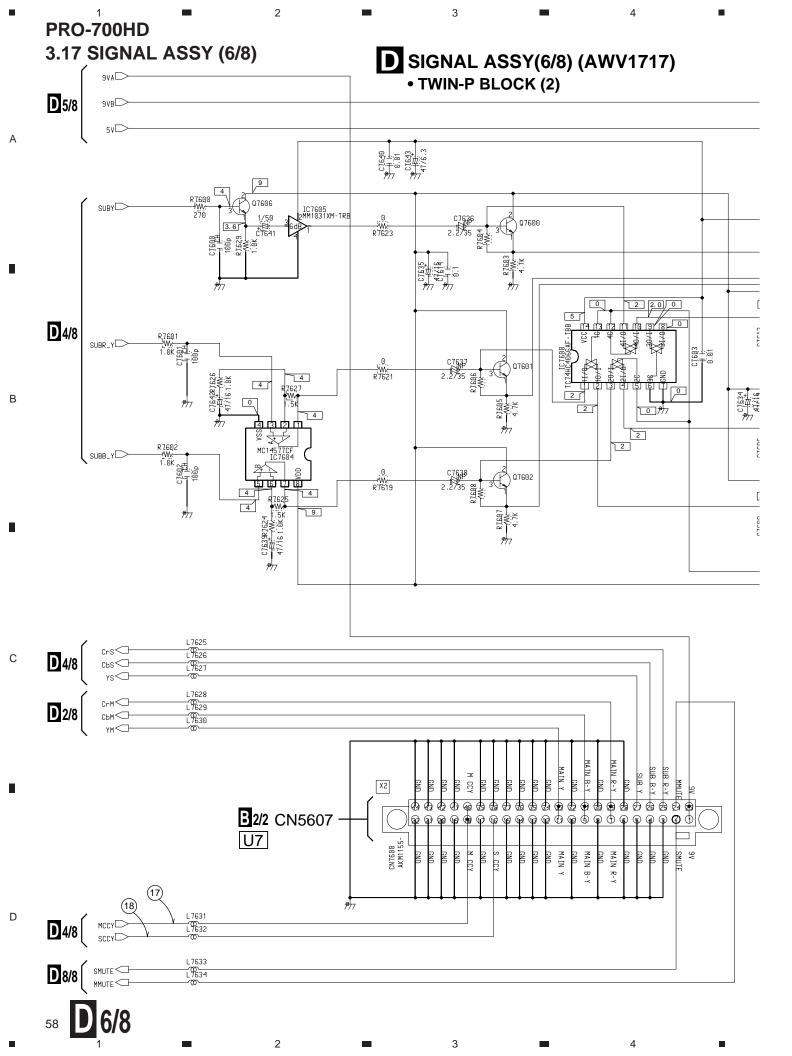


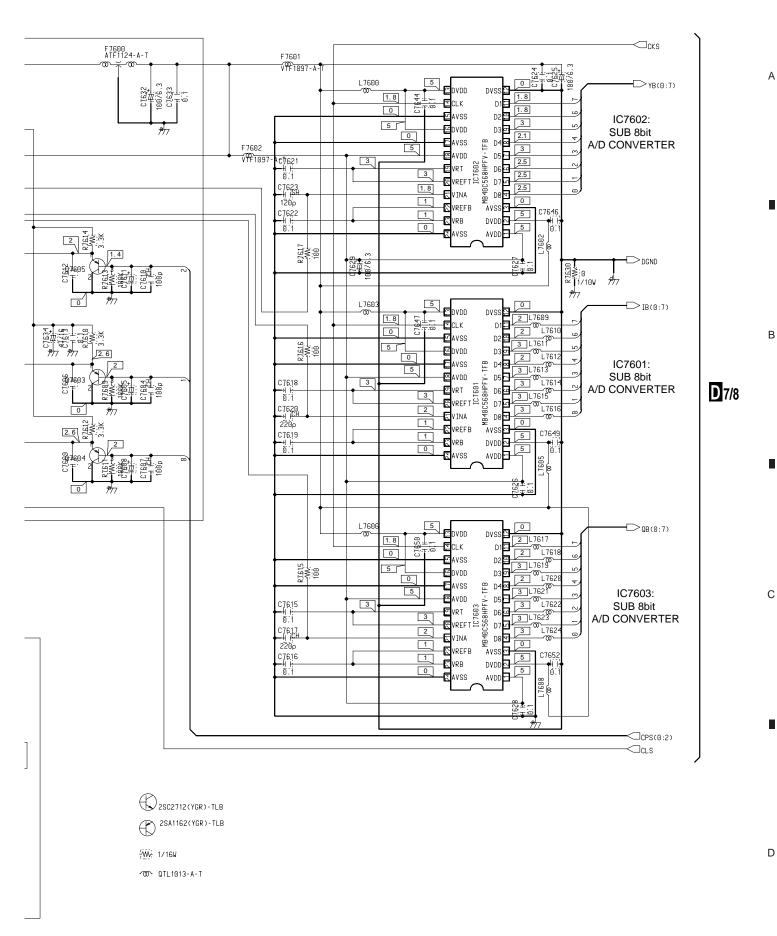
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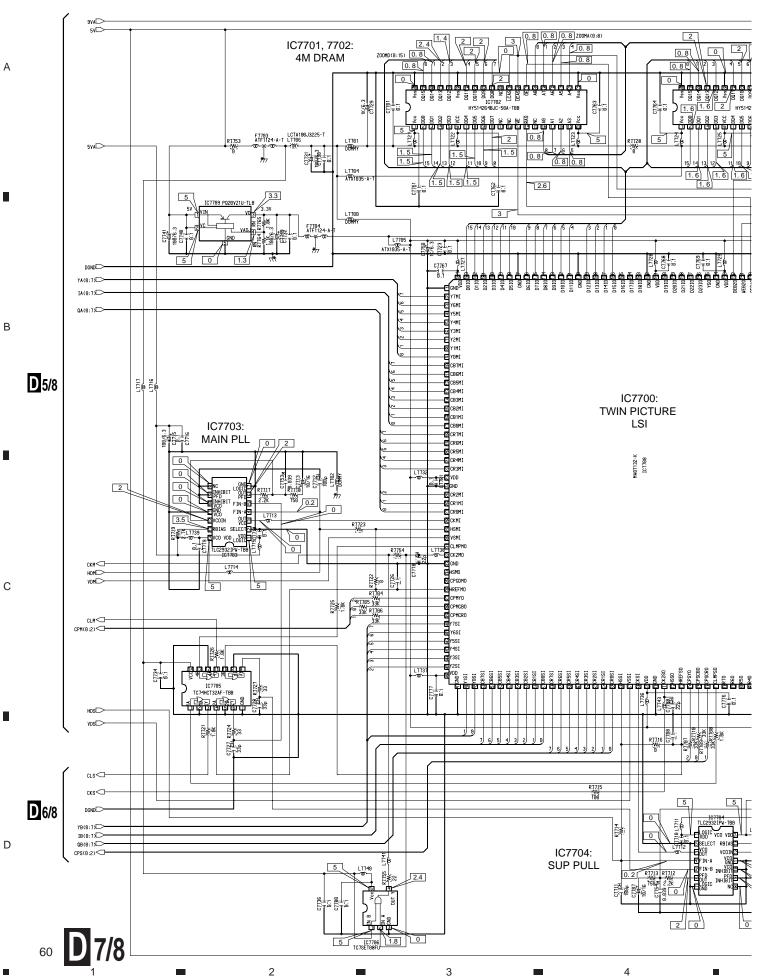
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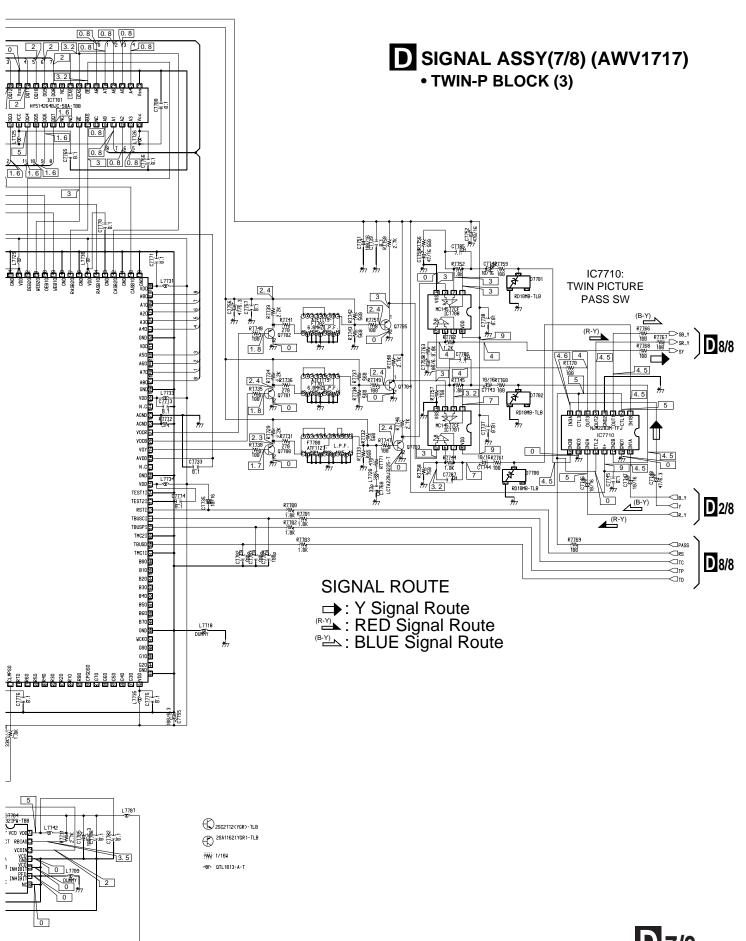
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D 6/8 59





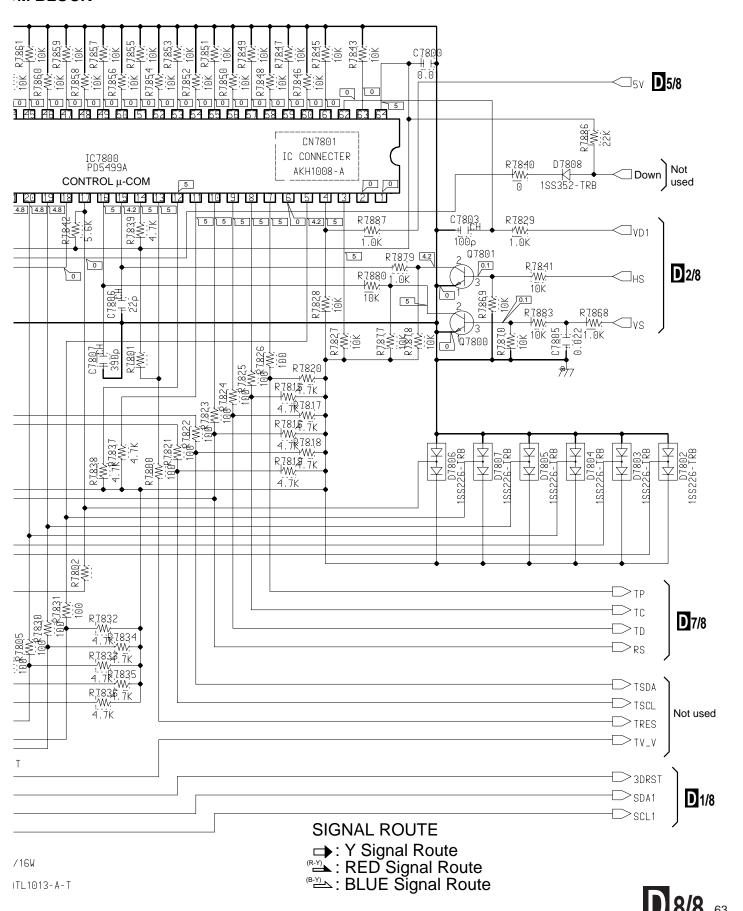
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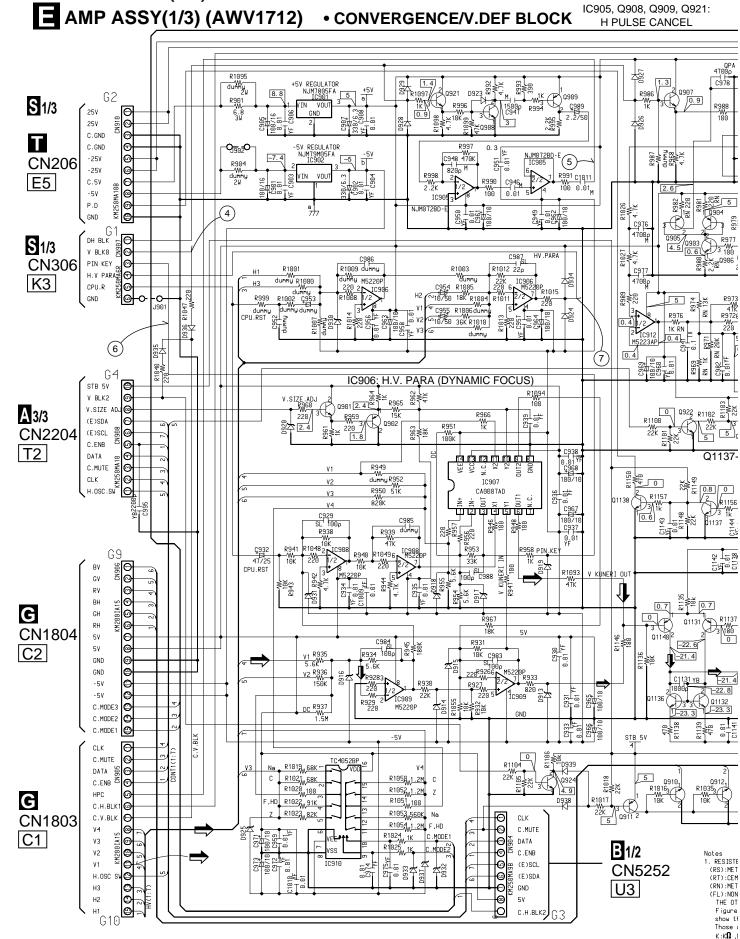
D 7/8 61

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AL ASSY(8/8) (AWV1717) M BLOCK



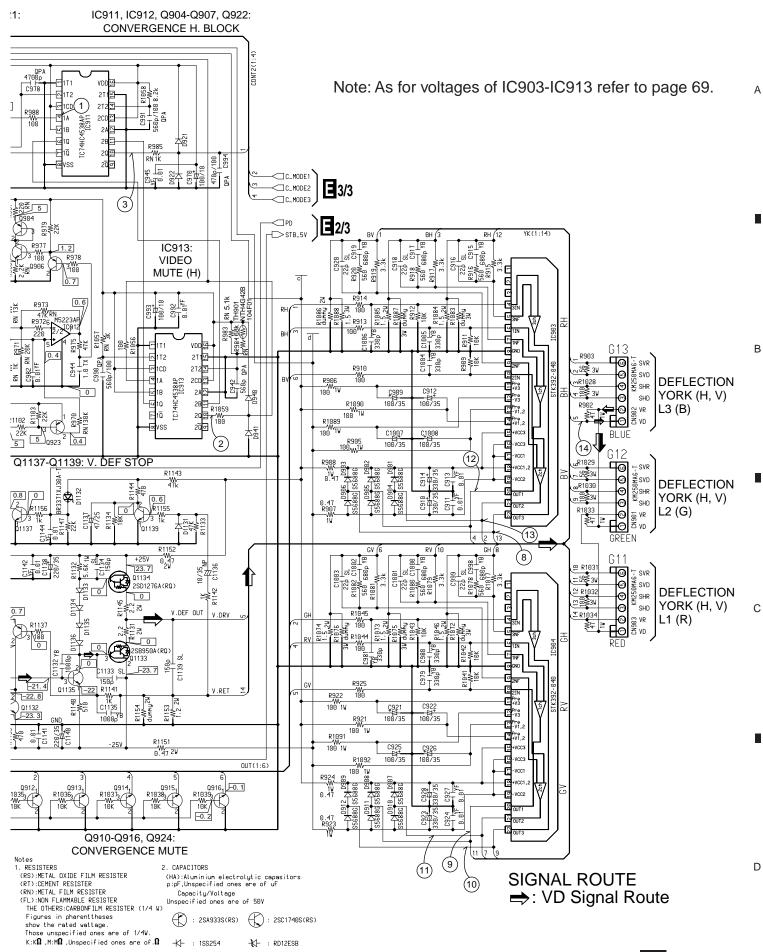


4 **目**1/3

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E 1/3 65

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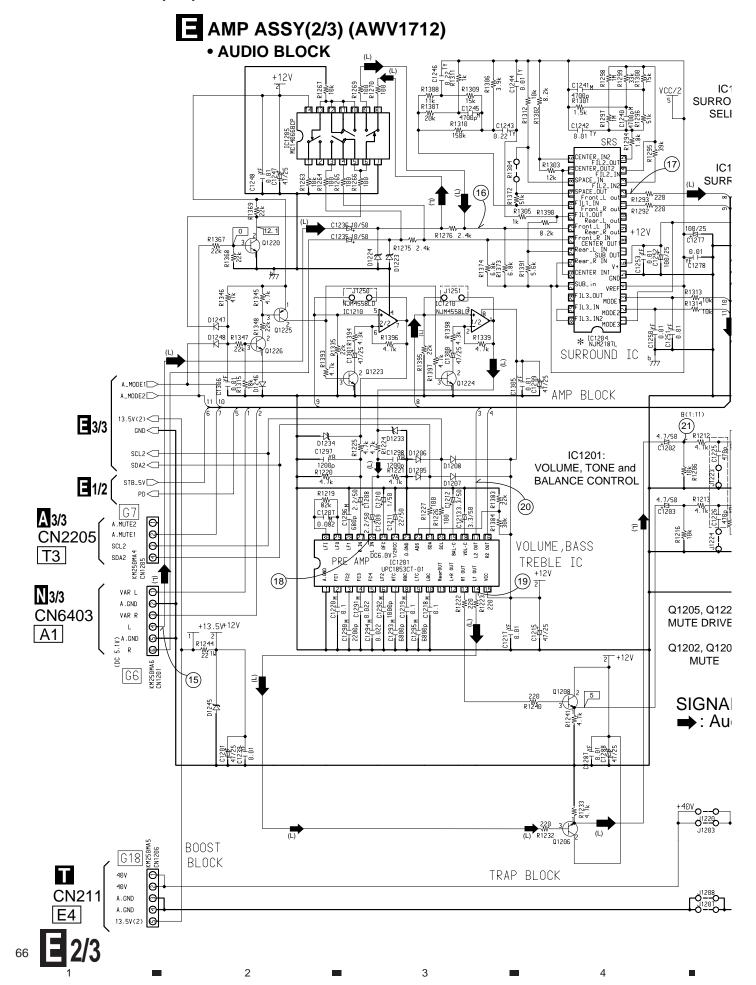
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3.21 AMP ASSY (2/3)

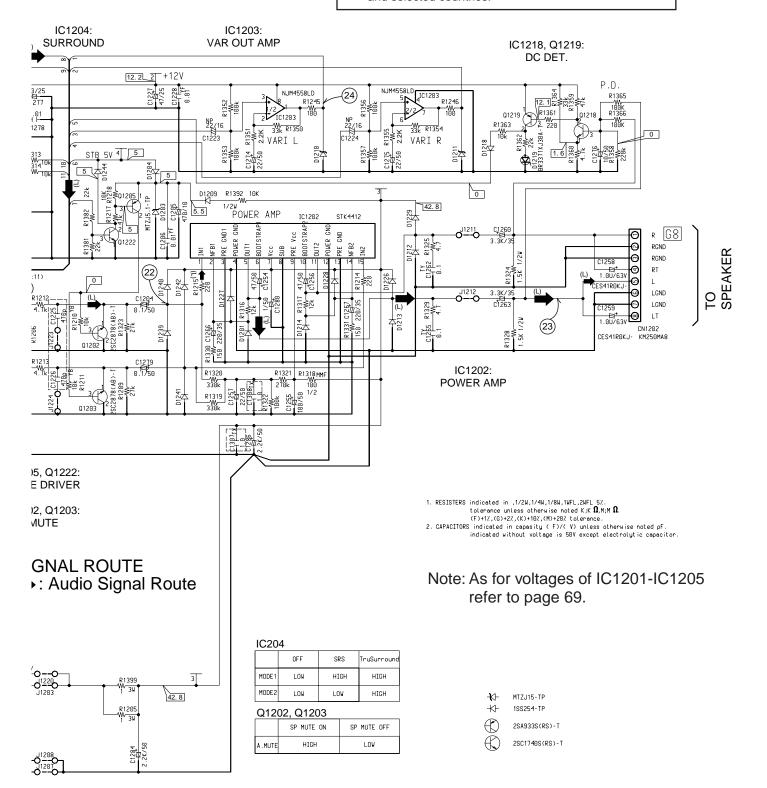


IC1205: SURROUND GAIN SELECTOR 5

5

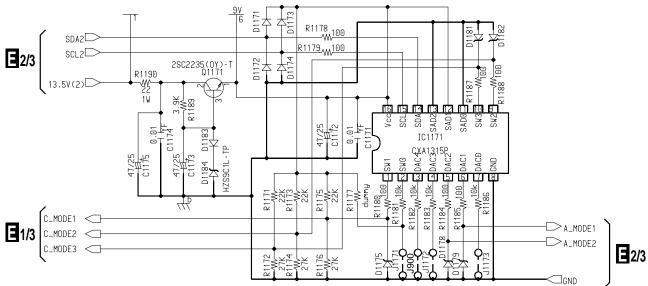
* TruSurround**

* TruSurround, SRS and the SRS symbol are trademarks of SRS Labs, Inc. TruSurround and SRS are incorporated under a license from SRS Labs, Inc. Patented in the U.S. and selected countries.



E AMP ASSY(3/3) (AWV1712) • EXP BLOCK

2



Notes

В

D

1. RESISTERS

(RS):METAL OXIDE FILM RESISTER

(RT):CEMENT RESISTER

(RN):METAL FILM RESISTER (FL):NON FLAMMABLE RESISTER

THE OTHERS: CARBONFILM RESISTER (1/4 W)

Figures in pharenttheses show the rated wattage.

Those unspecified ones are of 1/4W.

 $\mathsf{K}\!:\!\mathsf{K}\pmb{\Omega}$, $\mathsf{M}\!:\!\mathsf{M}\pmb{\Omega}$,Unspecified ones are of $\pmb{\Omega}$

2

2. CAPACITORS

(HA):Aluminium electrolytic capasitors p:pF,Unspecified ones are of uF

Capacity/Voltage

Unspecified ones are of 50V

: 2SA933S(RS)



3

-K- : 1SS254

-**K**- : RD12ESB

E1/3 AMP ASSY (1/3)

IC903 (STK392-040)

	.0000 (0002 0.0)				
Pin	Voltage	Pin	Voltage		
No.	[V]	No.	[V]		
1	-21.8	12	-23.3		
2	-21.8	13	-22.8		
3	-22.3	14	22.7		
4	0	15	23.5		
5	0	16	-23.8		
6	0.4	17	-23.8		
7	0.4	18	23.5		
8	0	19	-23.8		
9	0	20	0.2		
10	0	21	0.1		
11	23.2	22	0		

IC904 (STK392-040)

	0001 (0111002 010)				
Pin No.	Voltage [V]	Pin No.	Voltage [V]		
1	-21.7	12	-23.3		
2	-21.7	13	-22.8		
3	-22.2	14	22.7		
4	0.1	15	23.6		
5	0.1	16	-23.6		
6	0	17	-23.6		
7	0	18	23.6		
8	0	19	-23.6		
9	0	20	0.1		
10	0	21	0.1		
11	23.2	22	0		

IC905 (NJM072BD)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	5	0
2	0	6	0
3	0	7	0
4	-5.0	8	5.0

Pin Voltage Pin Voltage No.

5

6

8

[V]

0

0

0

5.0

IC907 (CA0007AD)

Pin	Voltage	Pin	Voltage
No.	[V]	No.	[V]
1	0	8	0
2	0	9	0
3	1.0	10	0
4	0	11	0
5	0	12	0.1
6	0	13	5.0
7	0	14	-5.0

IC908 (M5220P)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	5	0
2	0	6	0
3	0	7	0
4	-5.0	8	5.0

IC909 (M5220P)

	. `	. '	
Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	5	0
2	0	6	0
3	0	7	0
4	-5.0	8	5.0

-5.0 IC910 (TC4052BP)

IC906 (M5220P)

[V]

-4.1

0.1

No.

2

IC910 (1C4032BF)					
Pin No.	Voltage [V]	Pin No.	Voltage [V]		
1	0	9	5.0		
2	0	10	5.0		
3	0	11	0		
4	0	12	-1.0		
5	0	13	0		
6	0	14	-0.9		
7	-5.0	15	-0.9		
8	0	16	5.0		

IC911 (TC74HC4538AP)

Pin	Voltage	Pin	Voltage
No.	[V]	No.	[V]
1	0	9	4.4
2	2.6	10	0.7
3	5.0	11	0.3
4	0.9	12	0
5	5.0	13	5.0
6	4.7	14	4.2
7	0.4	15	0
8	0	16	5.0

В

IC912 (M5223AP)

Pin	Voltage	Pin	Voltage
No.	[V]	No.	[V]
1	0.4	5	0.4
2	0.4	6	0.4
3	0.4	7	0.6
4	0	8	5.0

IC913 (TC74HC4538AP)

Pin Voltage Pin Voltage No. [V] No. [V] 1 0 9 4.7	ge
1 0 9 4.7	
0 40 04	
2 4.8 10 0.4	
3 5.0 11 4.7	
4 0.4 12 0	
5 5.0 13 5.0	
6 0.3 14 4.5	
7 4.8 15 0	
8 0 16 5.0	

No.	[V]	No.	[V]
1	0	9	4.7
2	4.8	10	0.4
3	5.0	11	4.7
4	0.4	12	0
5	5.0	13	5.0
6	0.3	14	4.5
7	4.8	15	0
8	0	16	5.0

E2/3 AMP ASSY (2/3)

IC1201 (μPC1201)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	11	6.2	21	-
2	6.2	12	6.2	22	5.2
3	6.2	13	6.2	23	0
4	6.2	14	6.2	24	6.1
5	6.2	15	12.2	25	6.2
6	6.2	16	6.2	26	6.2
7	6.2	17	6.2	27	6.2
8	6.2	18	6.2	28	6.2
9	6.2	19	4.7	29	6.2
10	6.2	20	-	30	6.2

IC1202 (STK4412)

6

Pin	Voltage	Pin	Voltage				
No.	[V]	No.	[V]				
1	1 10.9 2 10.6		42.1				
2			9.6				
3	0	11	20.8				
4	0	12	0				
5	20.8	13	0				
6	9.6	14	10.6				
7	42.8	15	10.9				
8	0						

IC1203 (NJM4558LD)

Pin	Voltage			
No.	[V]			
1	6.1			
2	6.1			
3	6.1			
4	0			
5	6.1			
6	6.1			
7	6.1			
8	12.1			

IC1205 (MC14066BCP)

Pin	Voltage	Pin	Voltage	
No. [V]		No.	[V]	
1	0	8	6.1	
2	2 -		6.1	
3	6.1	10	0	
4	4 6.1		0	
5	12.1	12	0	
6 12.1		13	0	
7 0		14	12.1	

IC1204 (NJM2187L)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	12.2	11	6.1	21	6.1
2	0	12	6.1	22	6.1
3	0	13	6.1	23	6.1
4	6.1	14	6.1	24	6.1
5	0	15	6.1	25	6.1
6	12.2	16	6.1	26	6.1
7	6.1	17	6.1	27	6.1
8	6.1	18	6.1	28	6.1
9	6.1	19	6.1	29	6.1
10	6.1	20	6.1	30	6.1

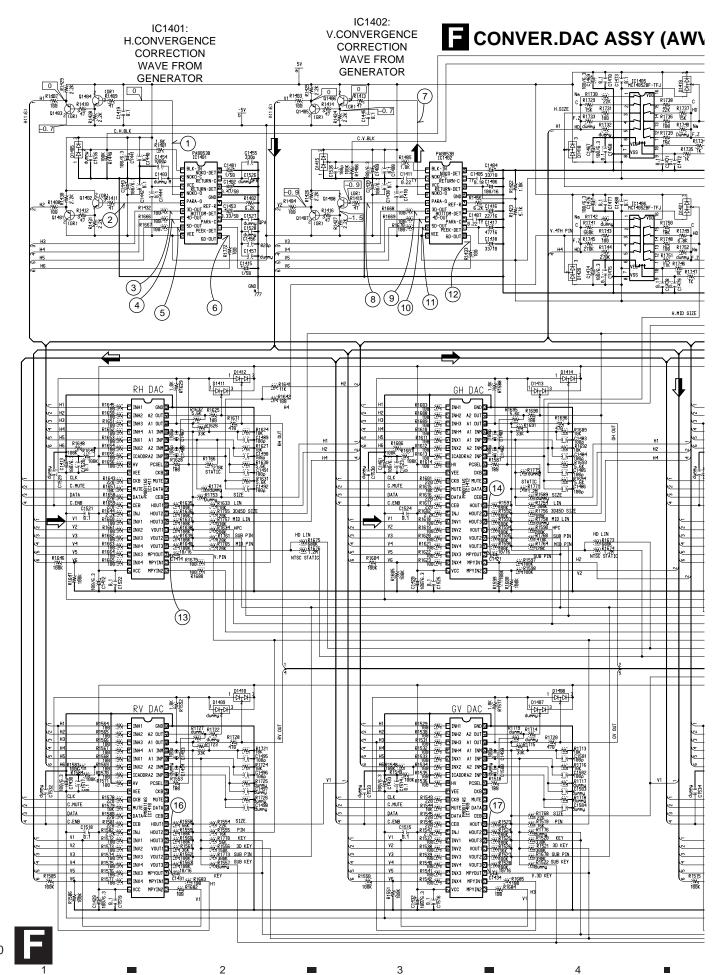
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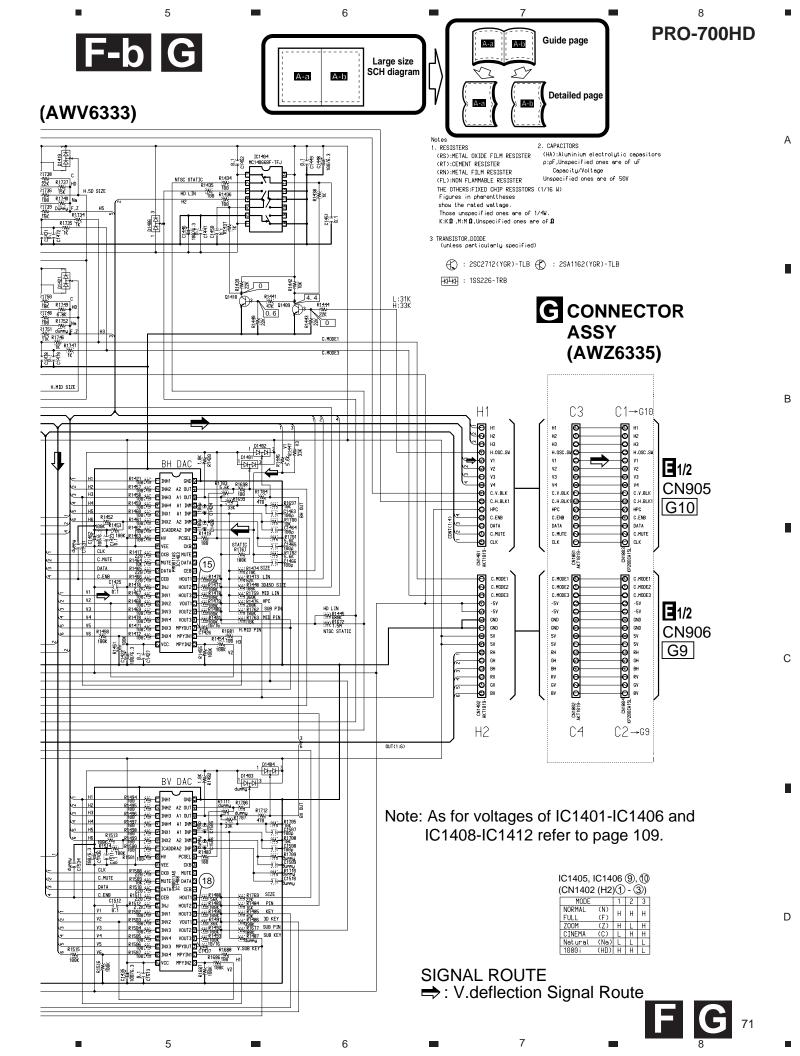
69

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D



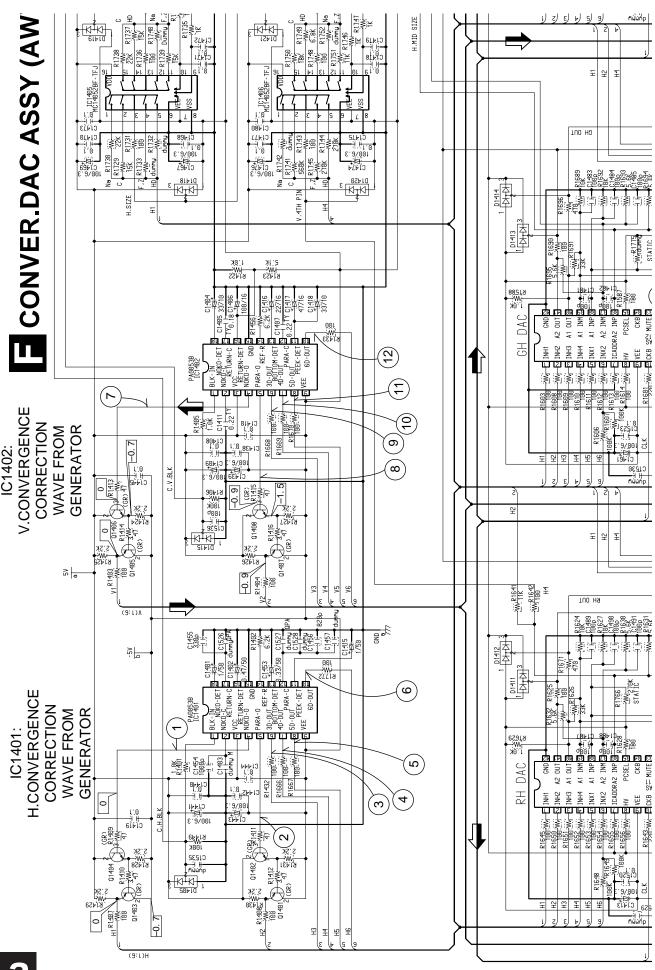




В

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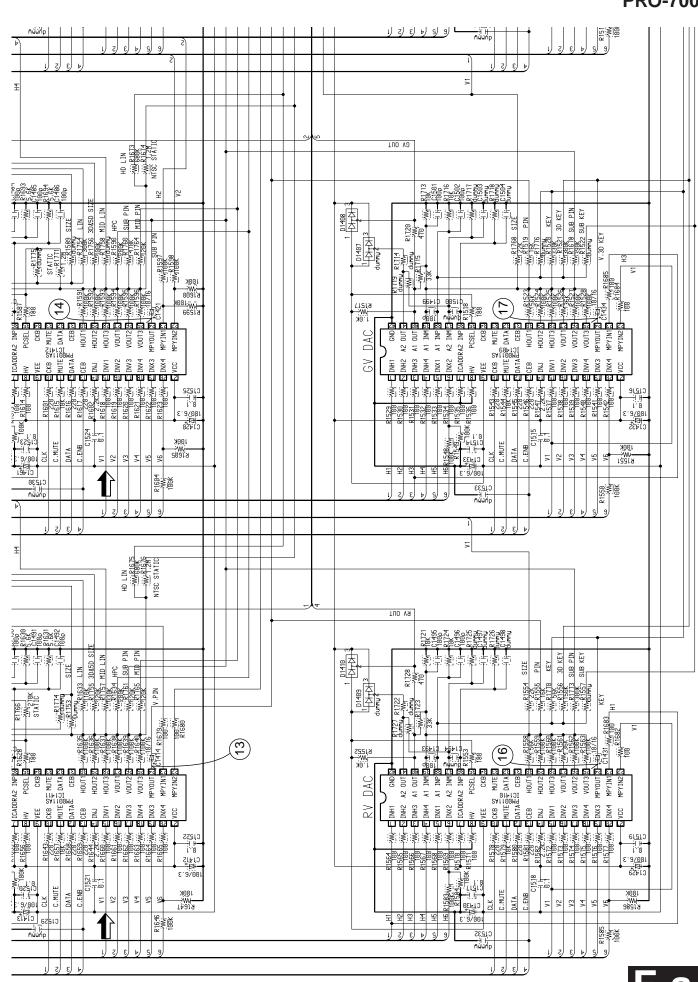
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72 **F-a**

2

3

•



В

С

D

G CONNECTOR ASSY (AWZ6335)

3

CN905 **=**1/2 C.H.BLK1 C 1→610 C.V.BLK C.ENB DATA C.MUTE H1 H2 H3 H,0SC.,9 2 2 2 2 C.H.BLK1 HPC C.ENB DATA C.MUTE CLK C.V.BLK

H.0SC.SV

33K v3 5.6Kg1447 5.6Kg1447

61450 - W. 1 0K

DAC

도 앞 또

2 2 2 2

C.V.BLK C.H.BLK1

HPC C.ENB DATA

TUO H8

1531

fiuunp

(P:1)TN00 L:31K H:33K

0.1 H H C1421 C) 448 4.4 0.1 H H

4WV6333)

3

H.MID SIZE

3 H3

0.6

R1749 H0 6.38 H0 6.38 H1752 Na dumin F.2 Na H1752 Na H1746 NA H174

C.MODE3 C.MODE1

С

В

(HA):Aluminium electrolytic capasitors

2. CAPACITORS

pipF,Unspecified ones are of uF

(RS):METAL OXIDE FILM RESISTER (RT):CEMENT RESISTER

Notes 1. RESISTERS

Unspecified ones are of 50V

Capacity/Voltage

2

show the rated wattage

THE OTHERS:FIXED CHIP RESISTORS (1/16 W)

(FL):NON FLAMMABLE RESISTER Figures in pharenttheses

(RN):METAL FILM RESISTER

2

K:K Ω ,M:M Ω ,Unspecified ones are of Ω Those unspecified ones are of 1/4W

3 TRANSISTOR,DIODE (unless particularly specified)

⊕ : 2SC2712(YGR)-TLB ⊕ : 2SA1162(YGR)-TLB

内内: 1SS226-TRB

22K -W.--W.--W.-

£

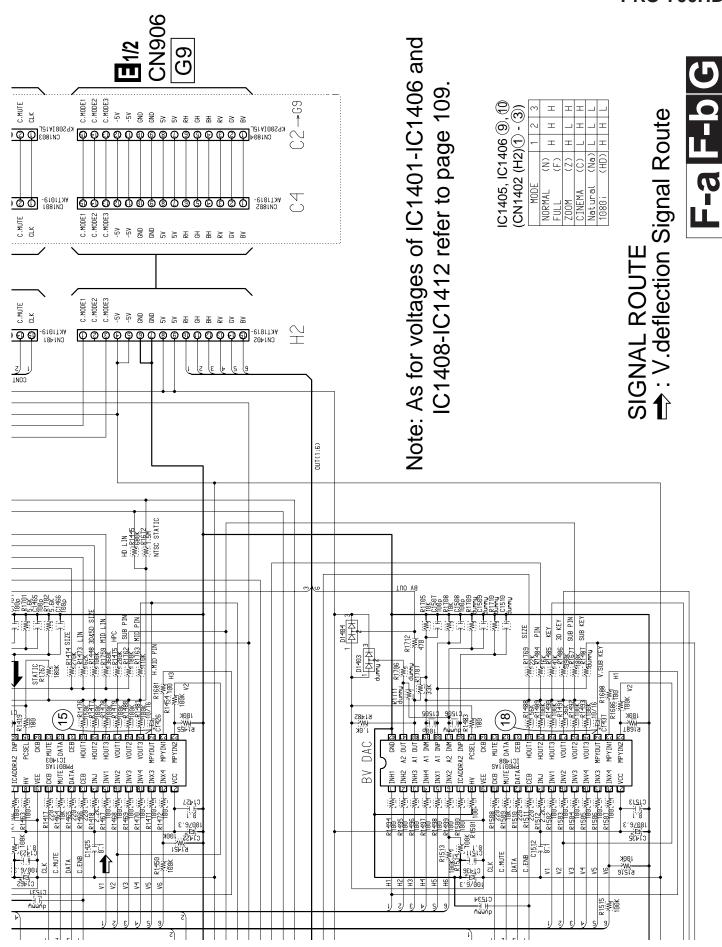
100/6-3

NTSC STATIC R1435 D1406 3

HD LIN

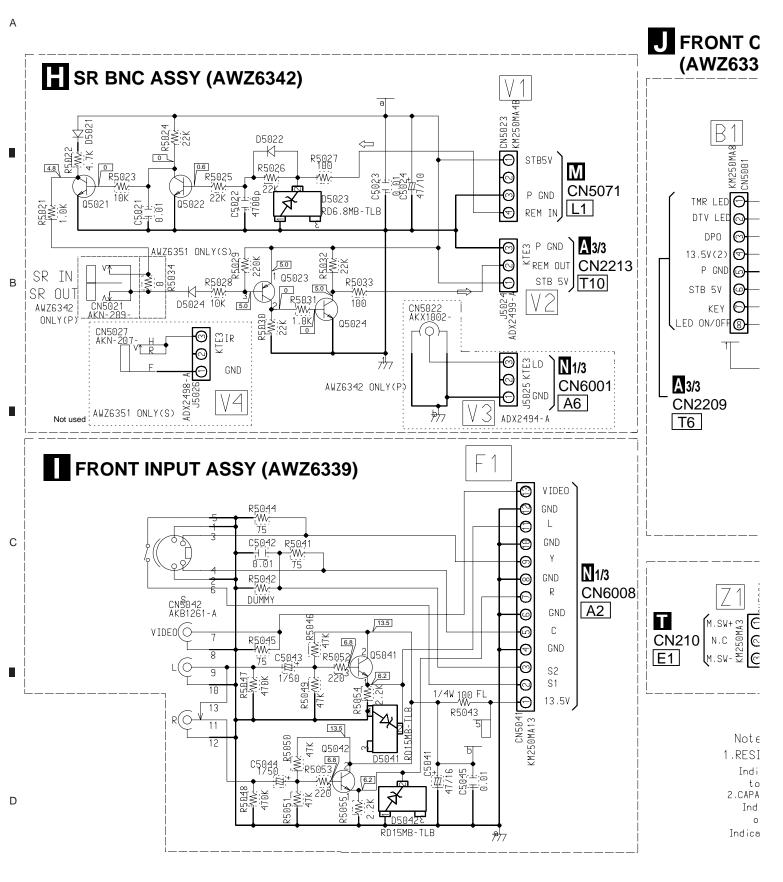
H.5D SIZE

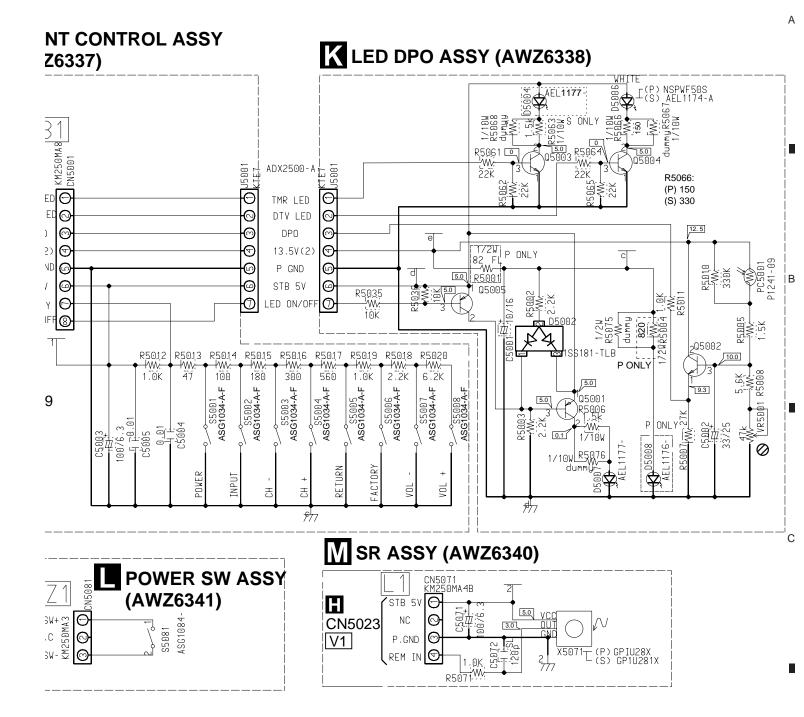
D



F-b G

3.24 SR BNC ASSY, FRONT INPUT ASSY, FRONT CONTROL ASSY, LED DPO ASSY, POWER SW ASSY, SR ASSY





Notes

1.RESISTORS

Indicated in Ω

tolerance unless otherwise noted k k

2.CAPASITORS

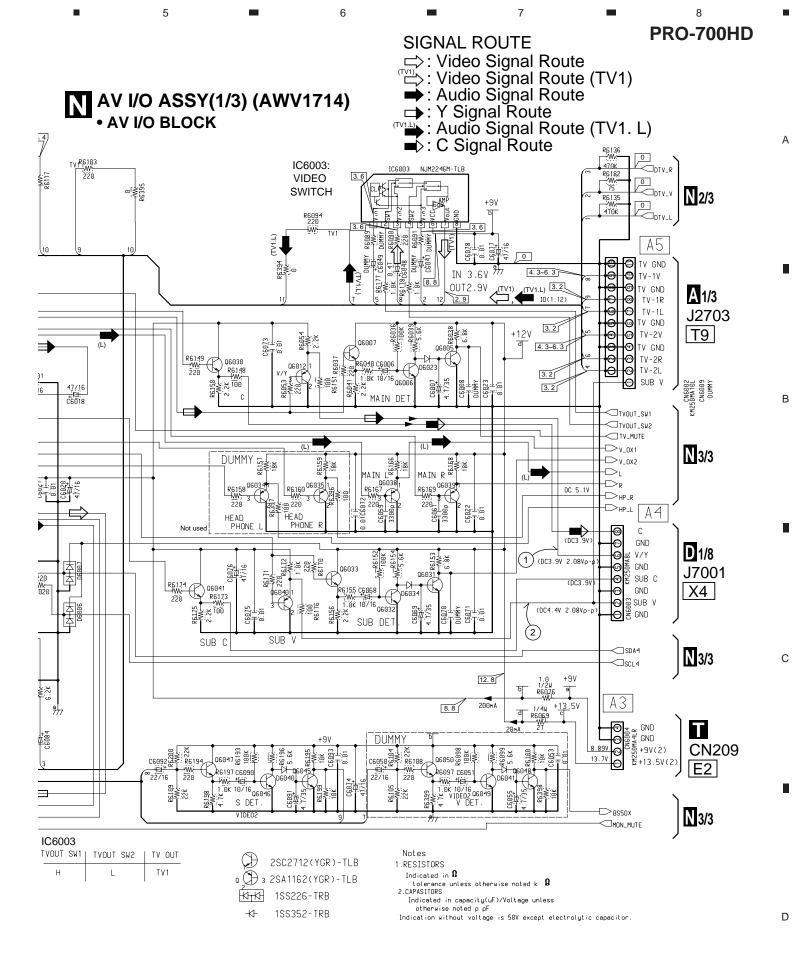
Indicated in capacity(uF)/Voltage unless otherwise noted p pF

5

Indication without voltage is 50V except electrolytic capacitor.

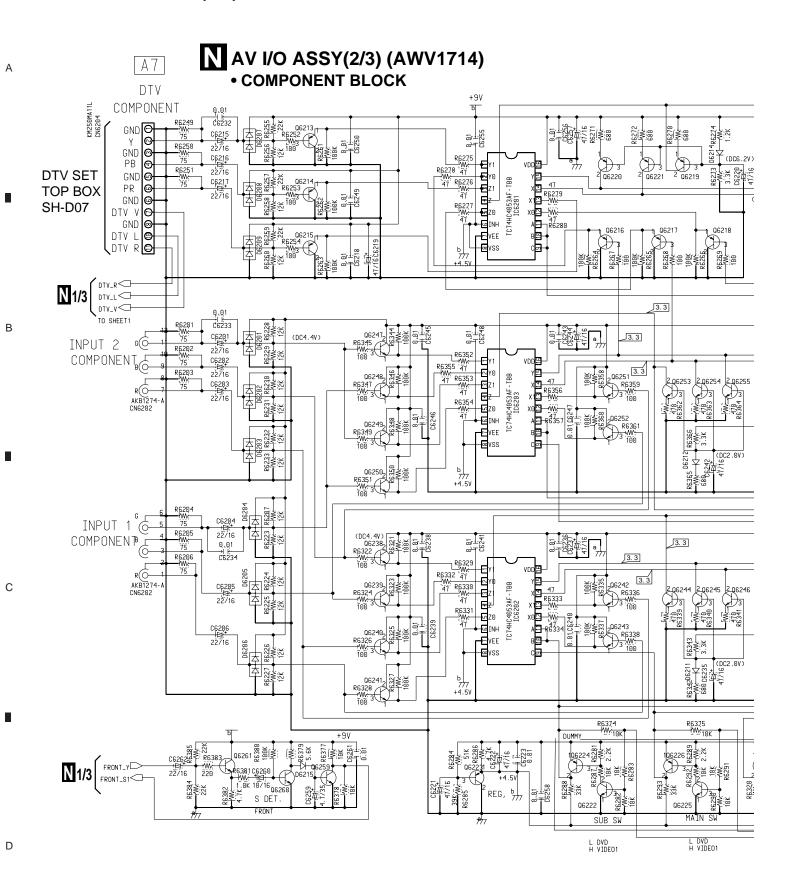
6

JKLM

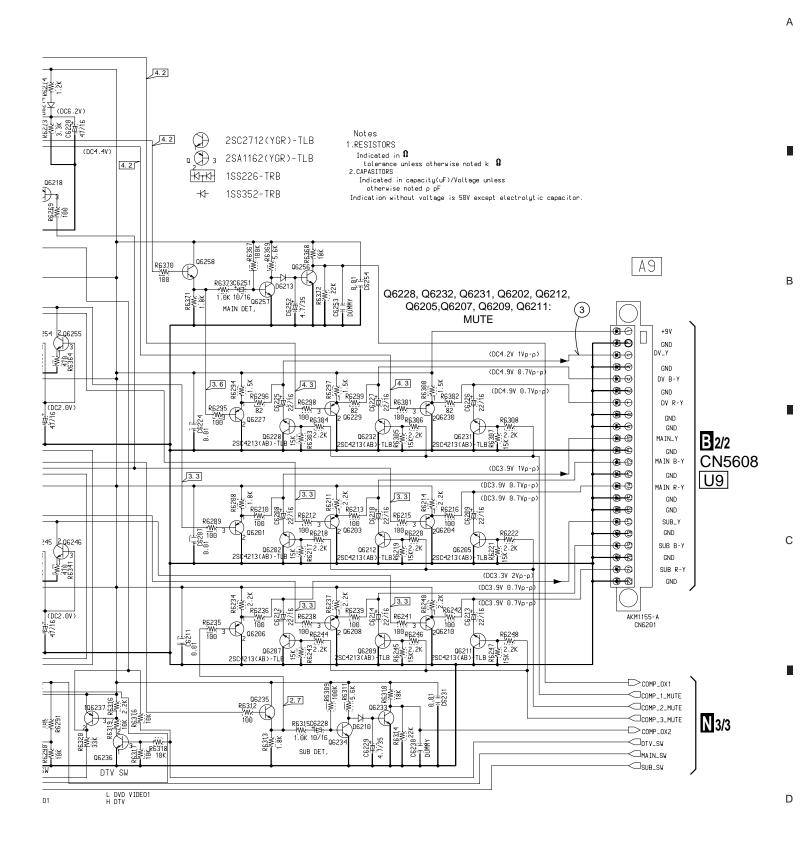


Note: As for voltages of IC6001 refer to page 110.

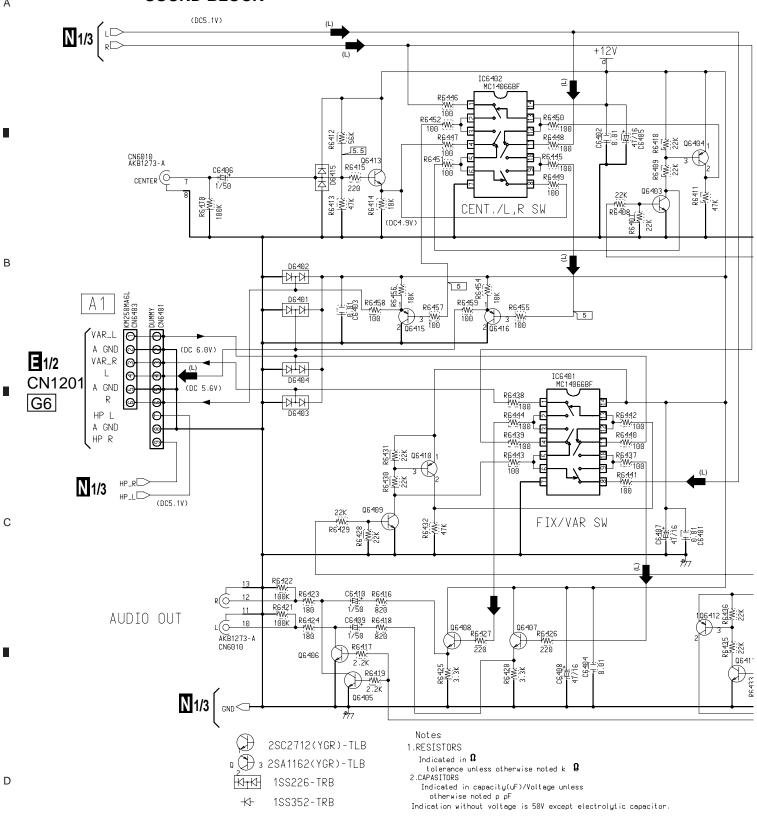
3.26 AV I/O ASSY (2/3)



3

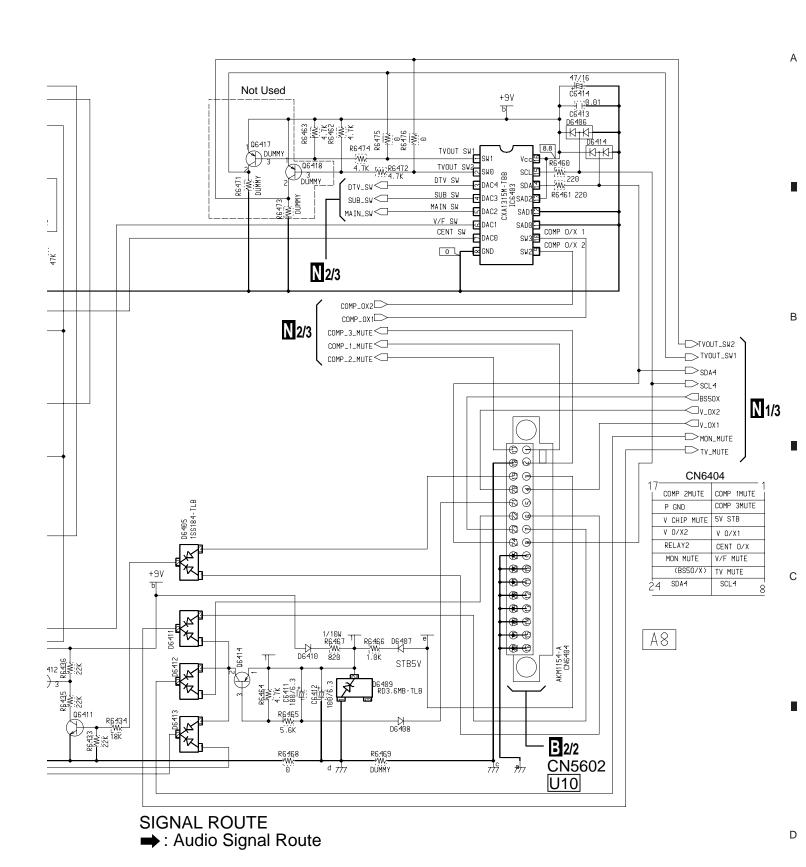


N AV I/O ASSY(3/3) (AWV1714) • SOUND BLOCK



3

3



N 3/3 83

В

С

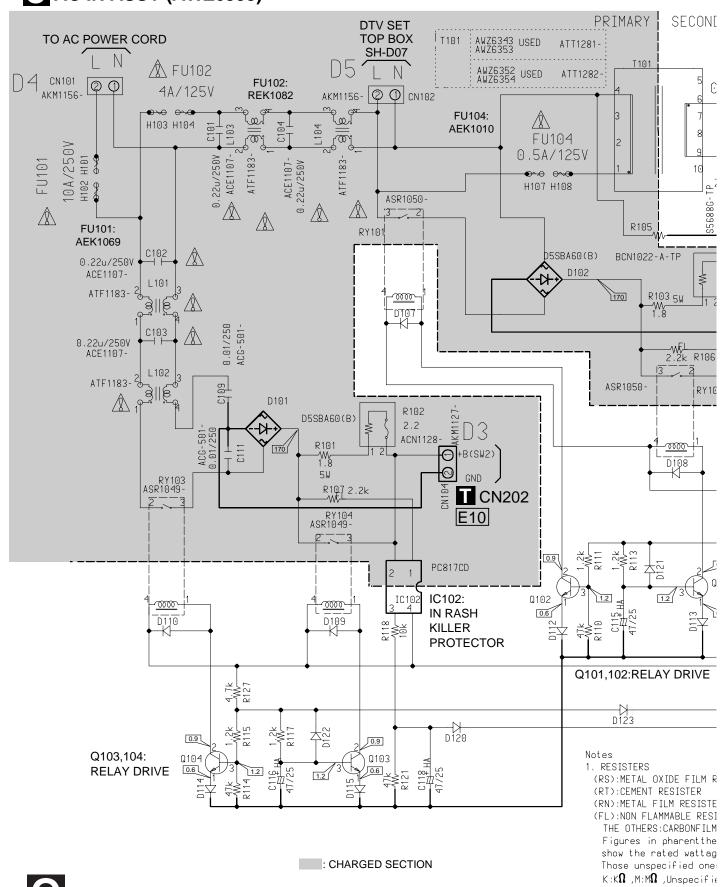
D

3.28 AC IN ASSY

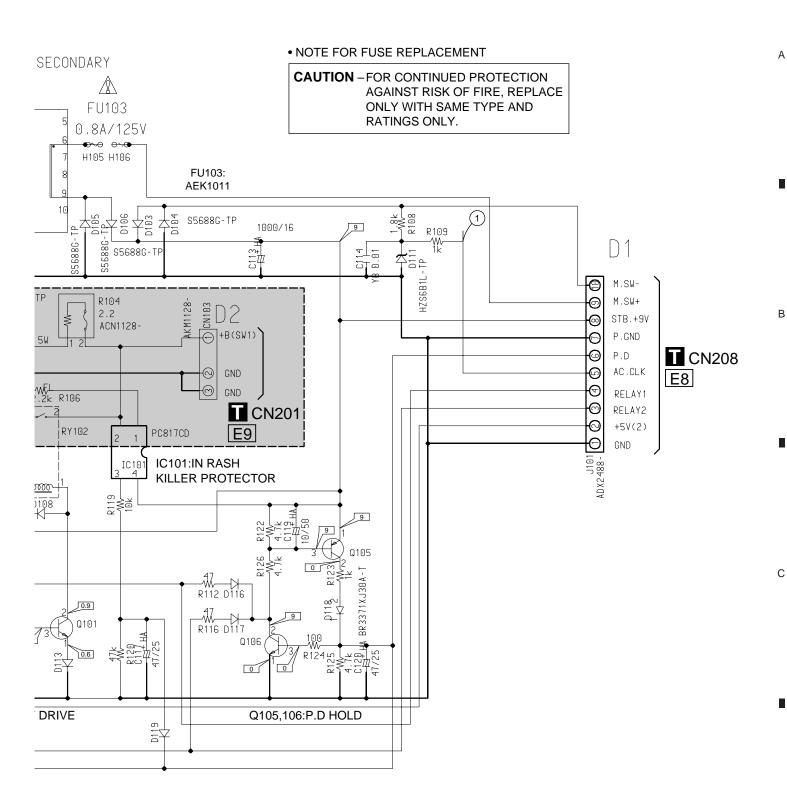
O AC IN ASSY (AWZ6353)

2

2



3



6

DE FILM RESISTER SISTER M RESISTER ABLE RESISTER ARBONFILM RESISTER (1/4

2. CAPACITORS

5

5

(HA):Aluminium electrolytic capasitors p:pF,Unspecified ones are of uF

Capacity/Voltage

narent theses ed wattage.

ified ones are of 1/4W. Inspecified ones are o $oldsymbol{\Omega}$

Unspecified ones are of 50V : 2SC1740S(RS) 2SA933S(RS) H: 1SS254

6

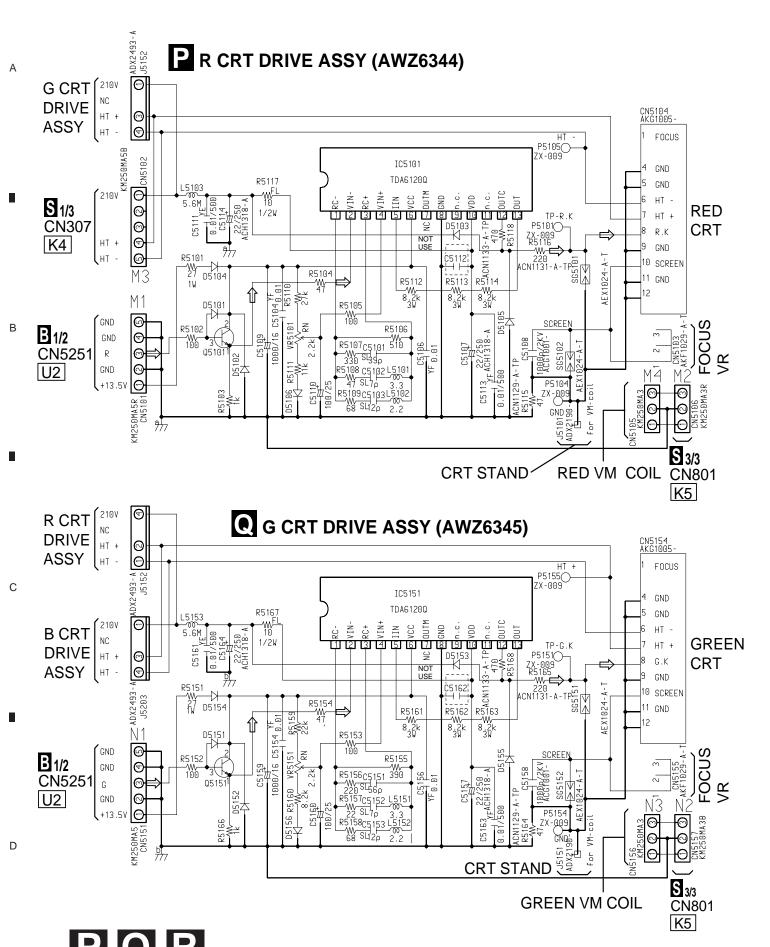
3. The $\ensuremath{ \bigwedge} \ensuremath{ \bigwedge}$ mark found on same component parts of indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical de-signation.

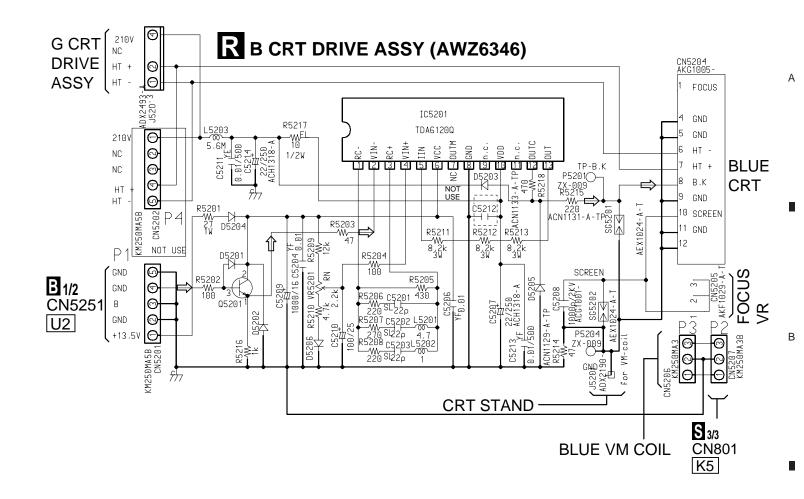
7

D

3.29 R CRT DRIVE ASSY, G CRT DRIVE ASSY, B CRT DRIVE ASSY

3





7

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6

SIGNAL ROUTE

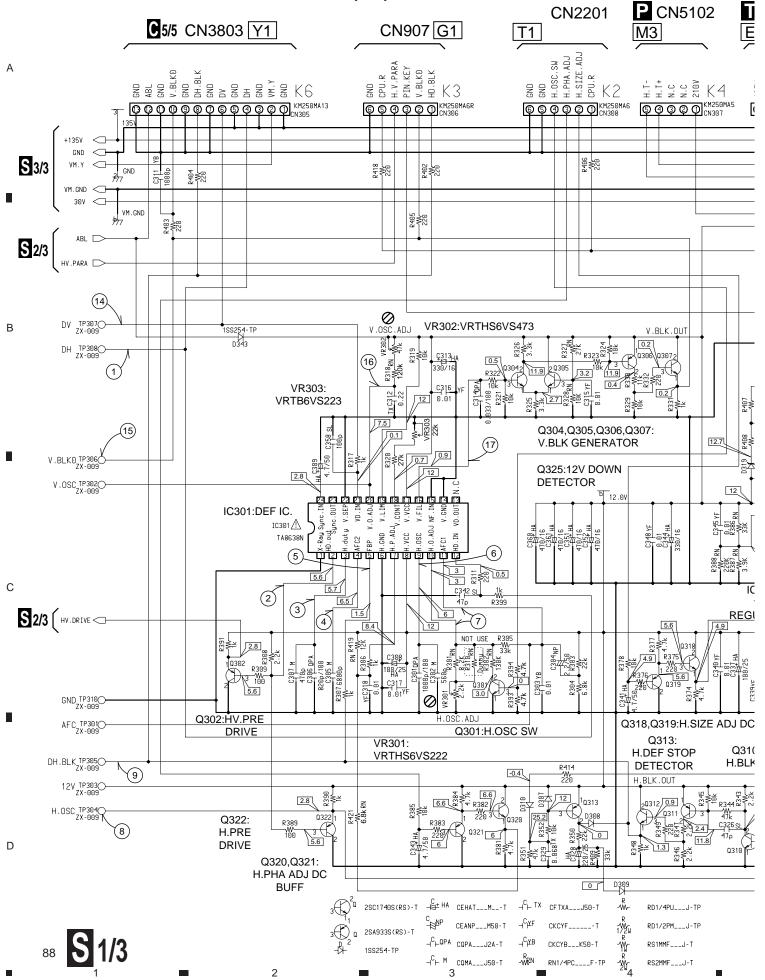
⇒: R,G or B SIGNAL

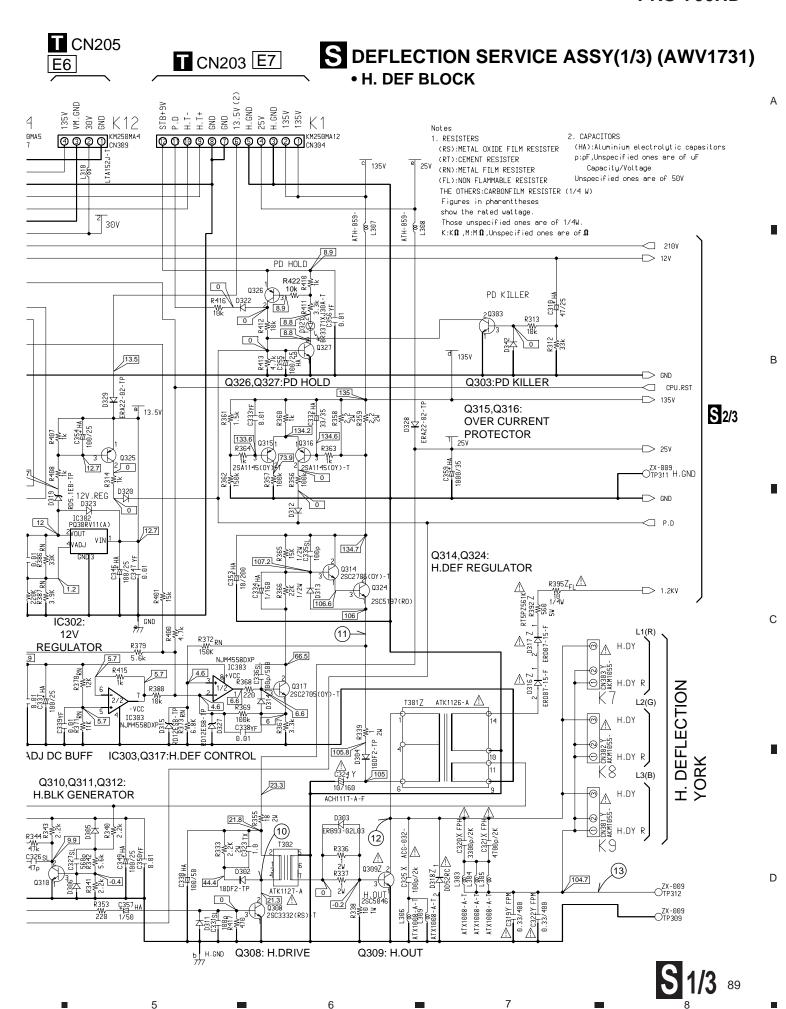
PQR 8

87

С

3.30 DEFLECTION SERVICE ASSY (1/3)



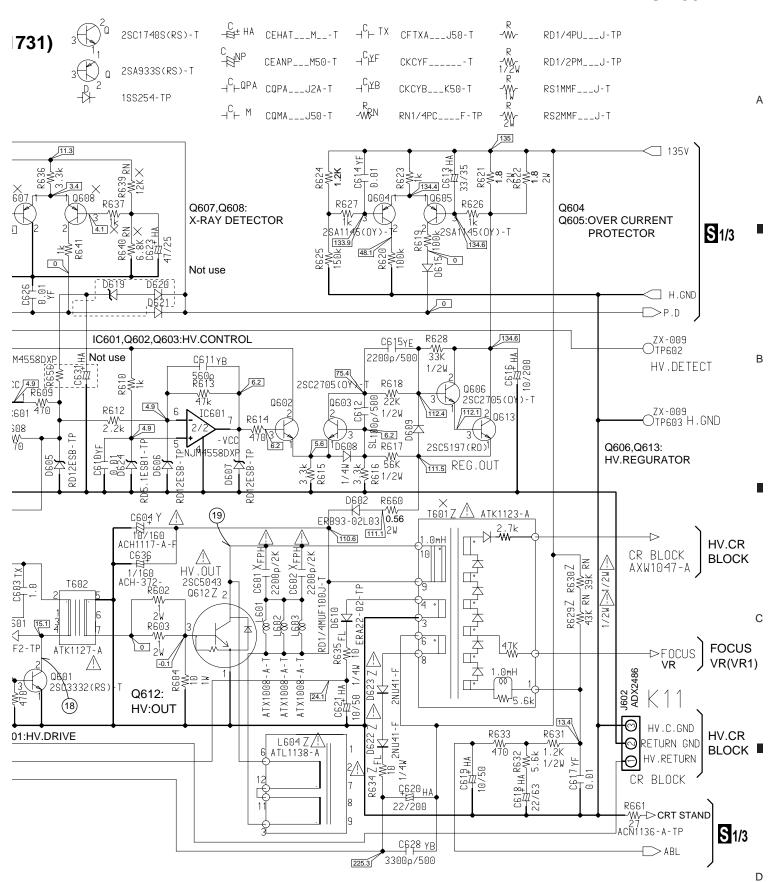


2

В

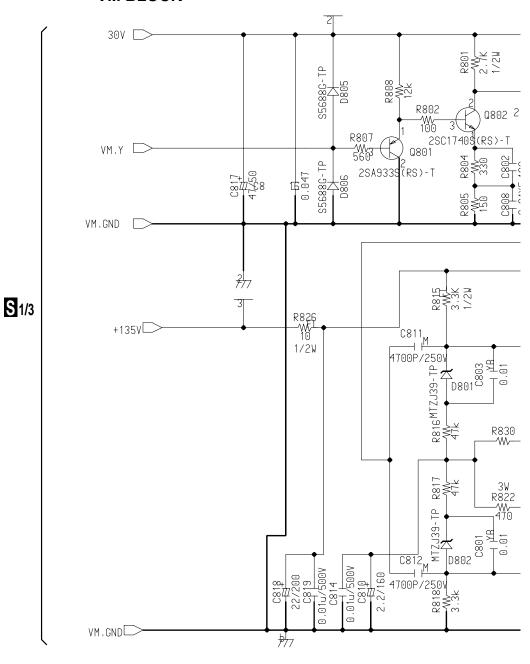
С

D



DEFLECTION SERVICE ASSY(3/3) (AWV1731) • VM BLOCK

3



3

2

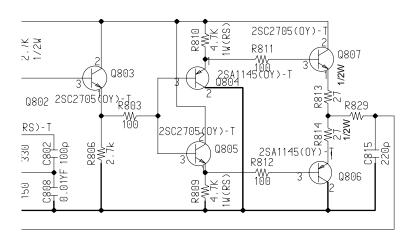
D

В

С

D

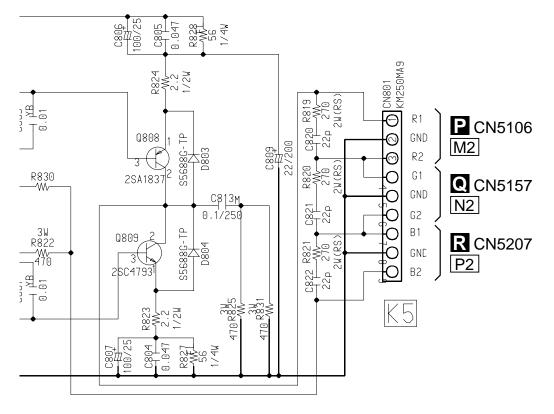
1)



5

6

7

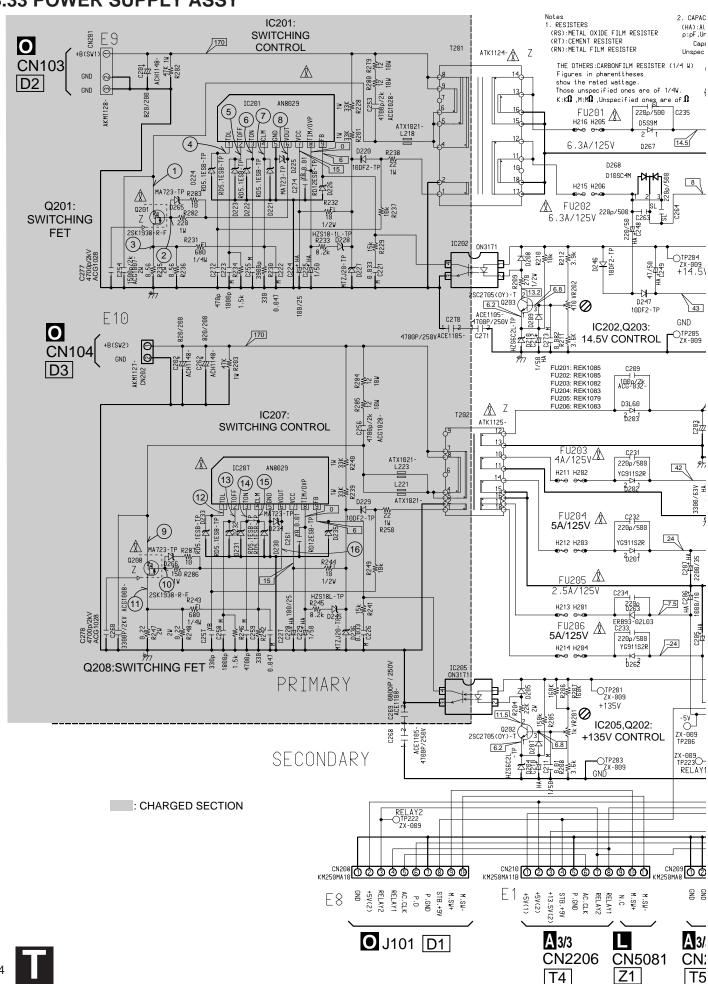


S 3/3 93

6

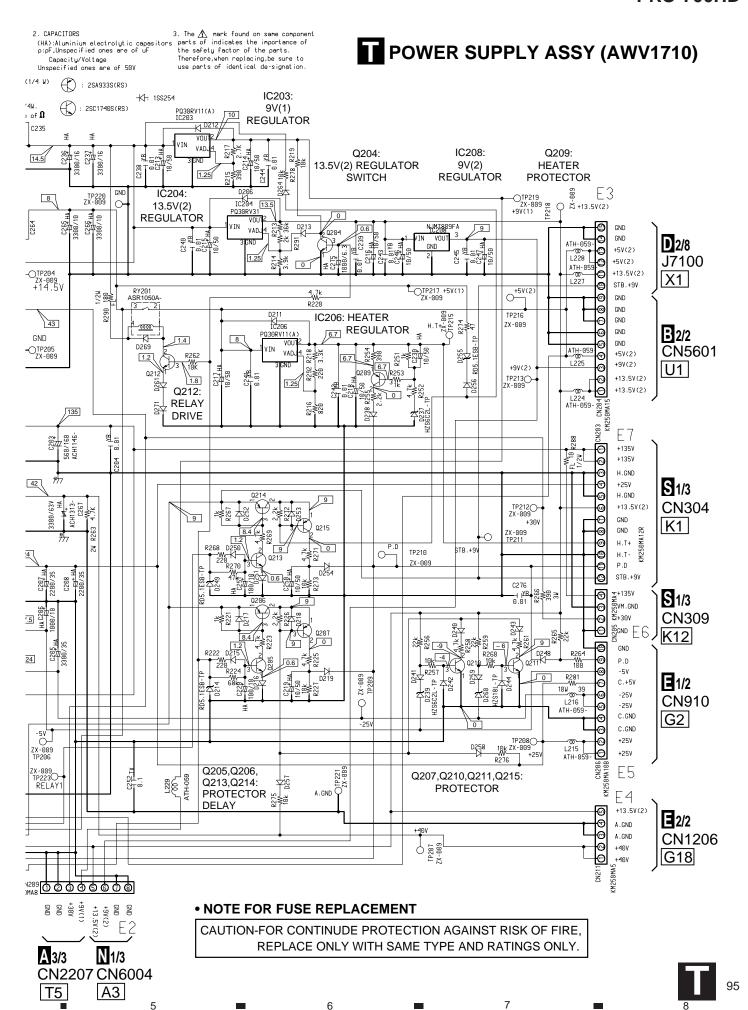
5

D



3

2



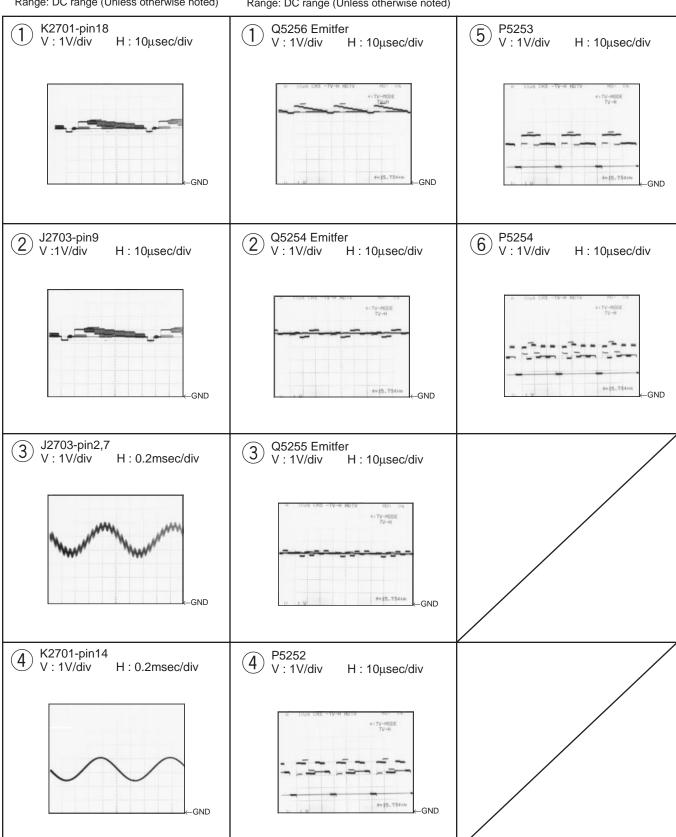
■ WAVEFORMS AND VOLTAGES

A TUNER u-COM ASSY

B VIDEO ASSY

Input signal
Video signal: Color bar
Picture quality: Standard

Picture quality: Standard Range: DC range (Unless otherwise noted) Input signal
Video signal: Color bar (NTSC, EIA)
Picture quality: Standard
Range: DC range (Unless otherwise noted)



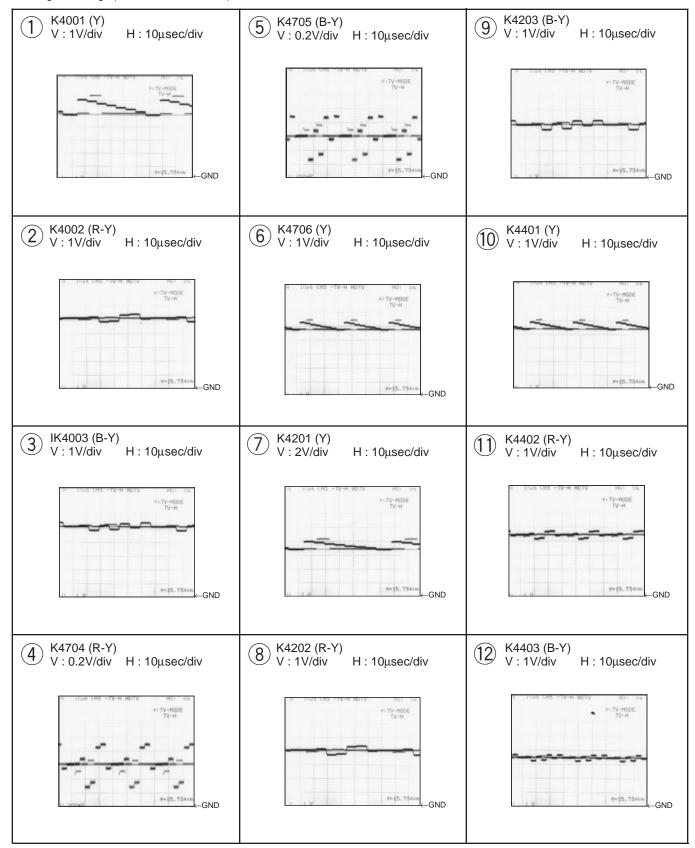
C SUB VIDEO ASSY

Input signal

Video signal: Color bar (NTSC, EIA)

Picture quality: Standard

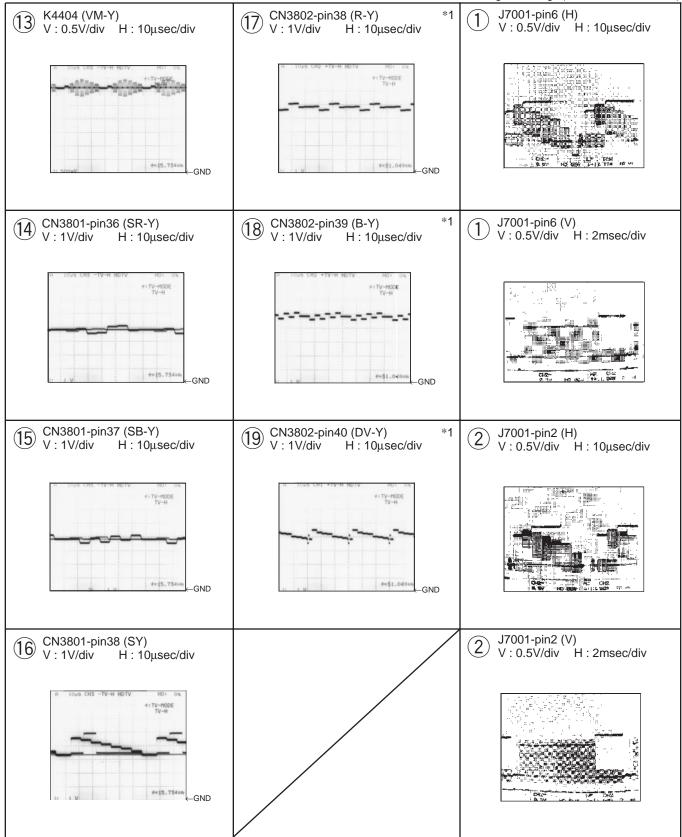
Range: DC range (Unless otherwise noted)



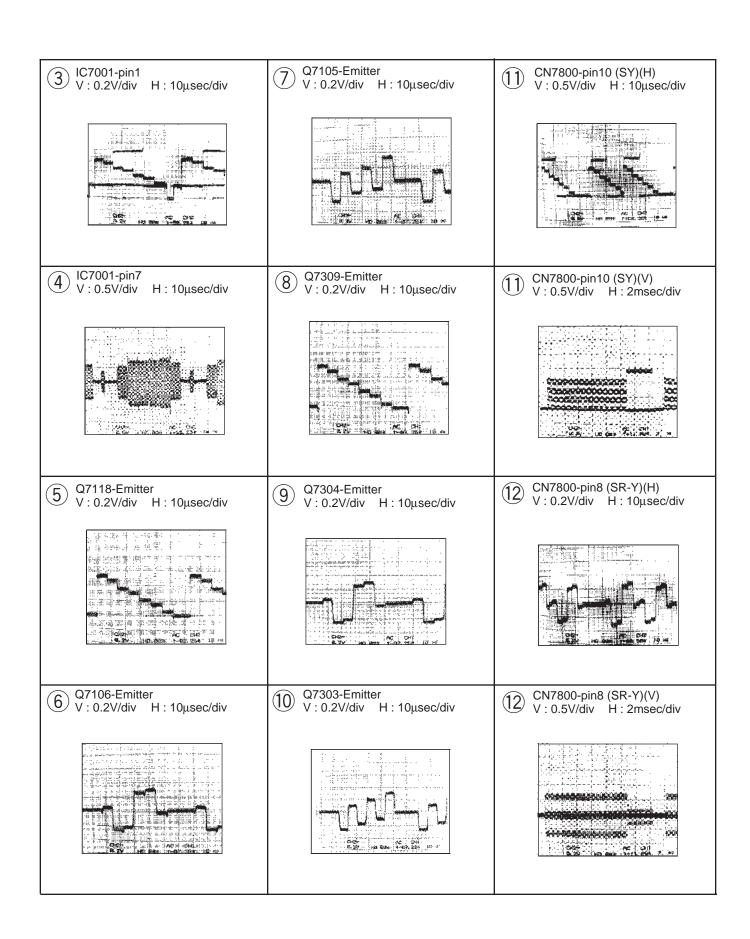
D SIGNAL ASSY

Input signal

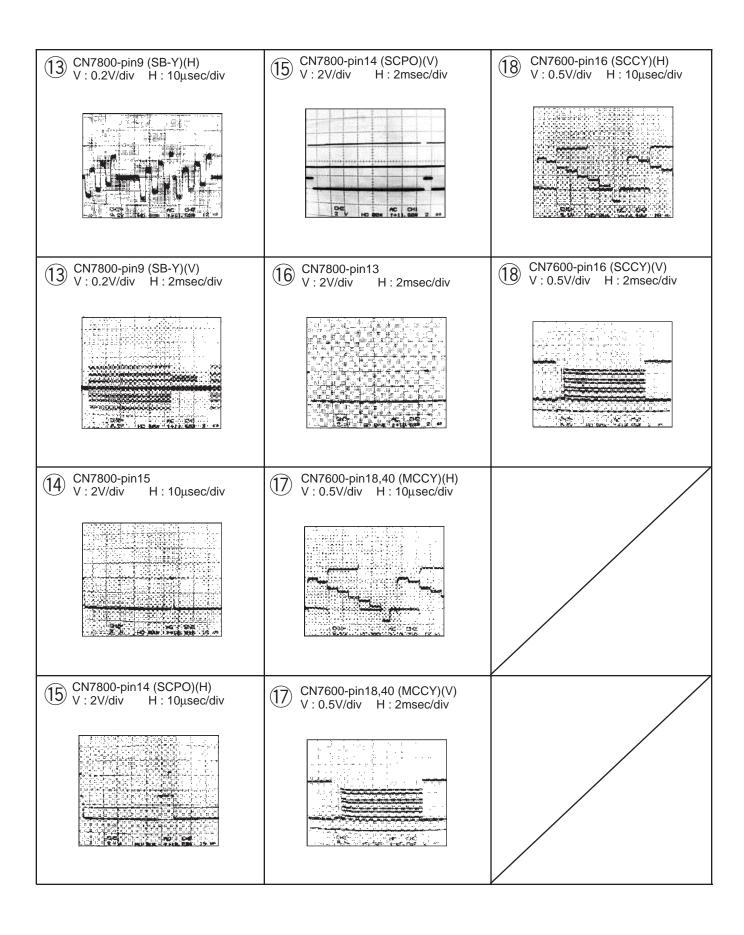
Video signal: Color bar (NTSC, EIA)
Picture quality: Standard
Range: DC range (Unless otherwise noted)



INPUT SIGNAL ①~ (9): 33.75kHz, FULL COLOR BAR



PRO-700HD

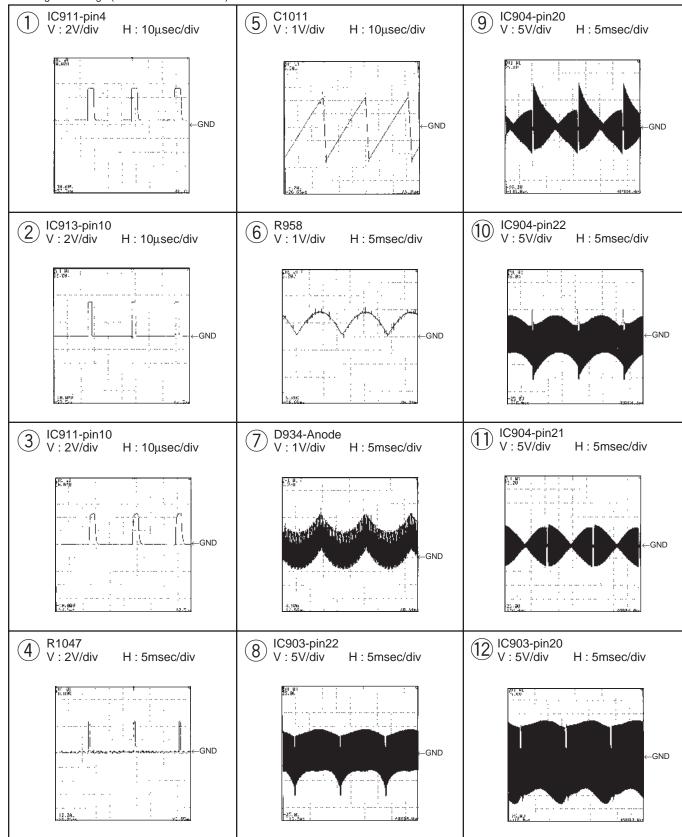


AMP ASSY

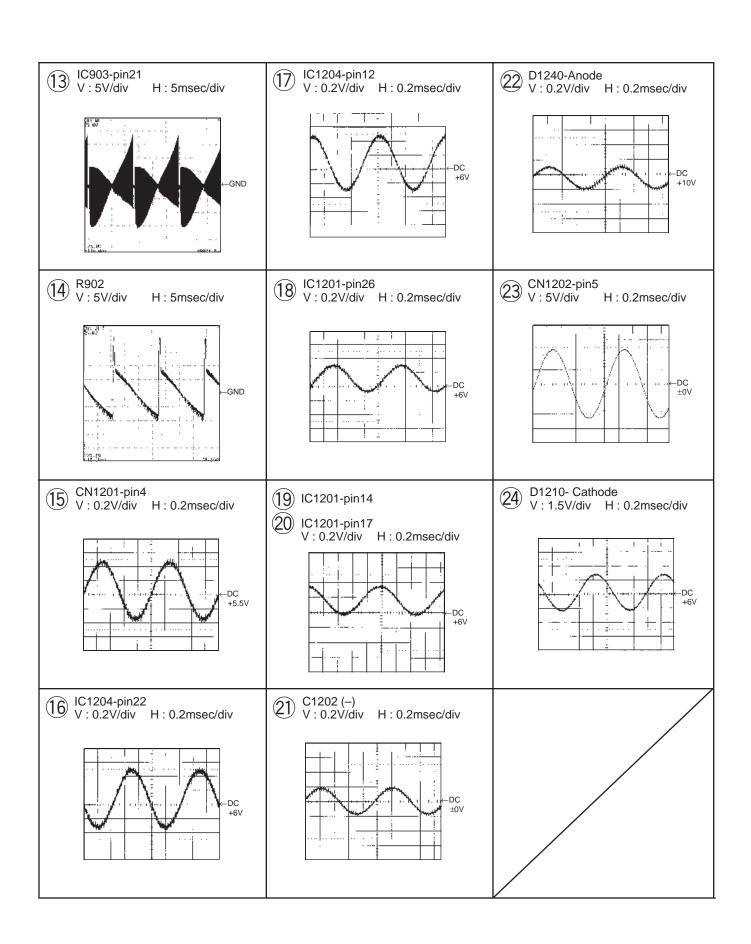
Input signal

Video signal: Color bar (NTSC, EIA)
Picture quality: Standard

Range: DC range (Unless otherwise noted)



PRO-700HD

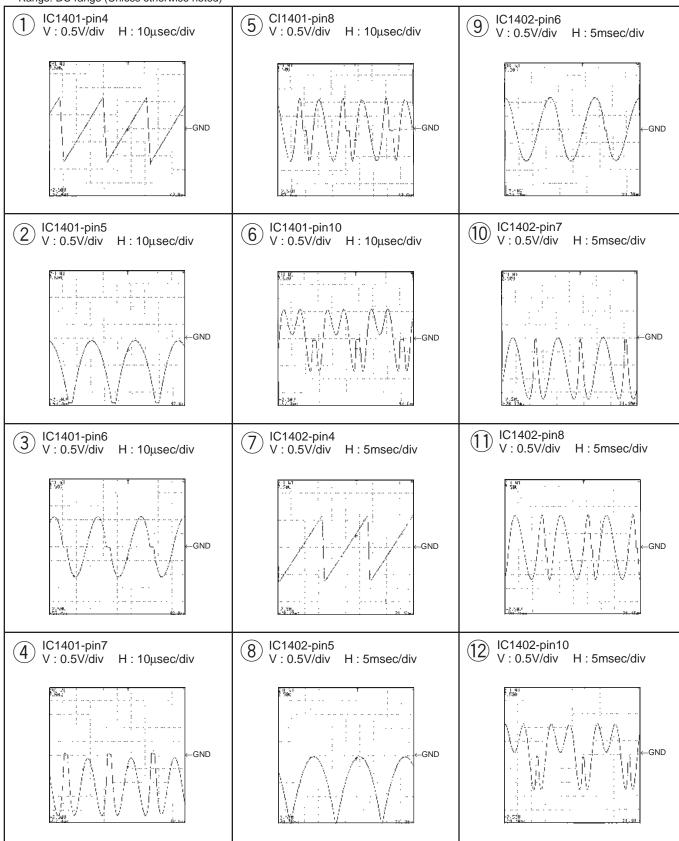


CONVER.DAC ASSY

Input signal

Video signal: Color bar (NTSC, EIA)
Picture quality: Standard

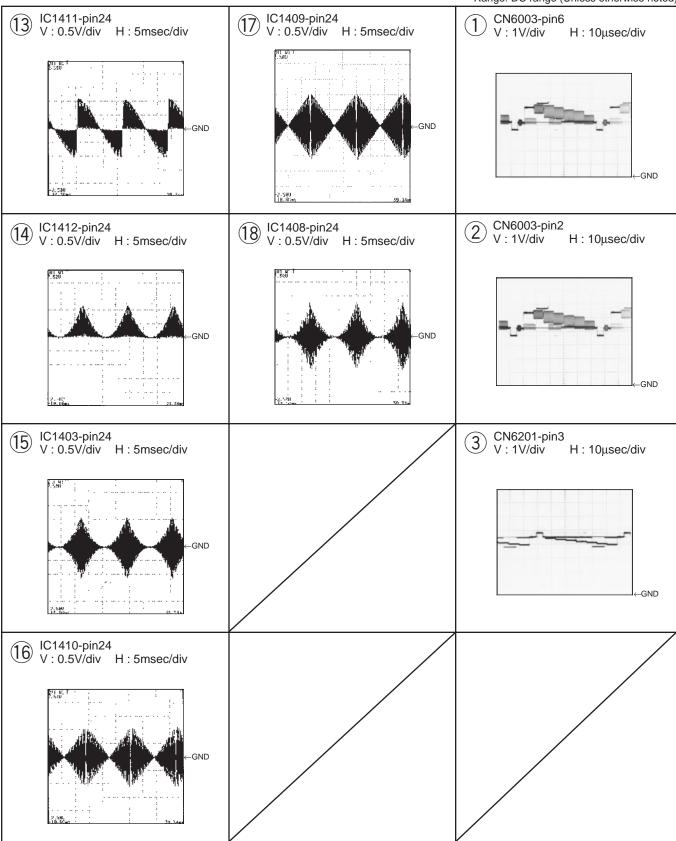
Range: DC range (Unless otherwise noted)



N AV I/O ASSY

Input signal

Video signal: Color bar (NTSC, EIA)
Picture quality: Standard
Range: DC range (Unless otherwise noted)



AC IN ASSY

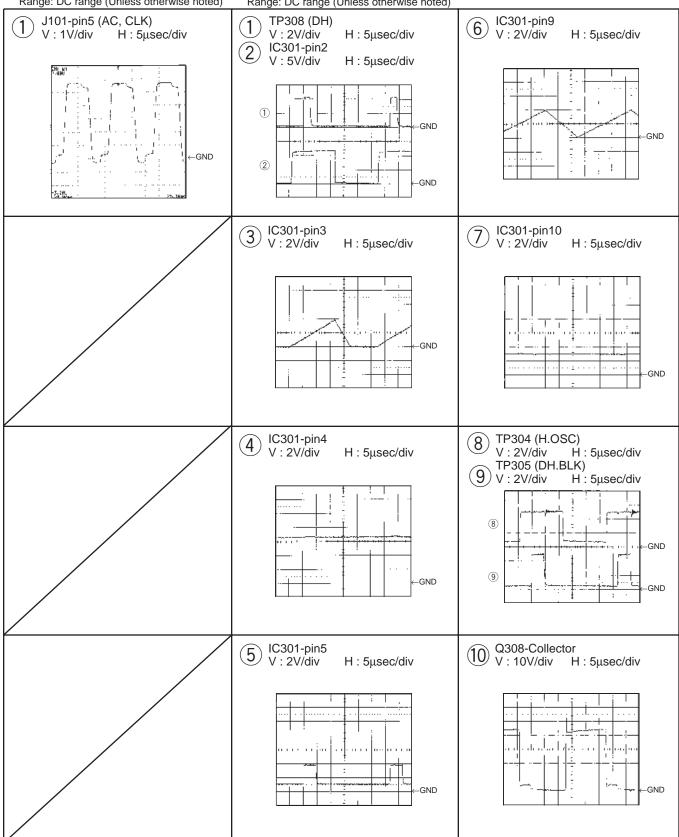
S DEFLECTION SERVICE ASSY

Input signal
Video signal: Color bar (NTSC, EIA)

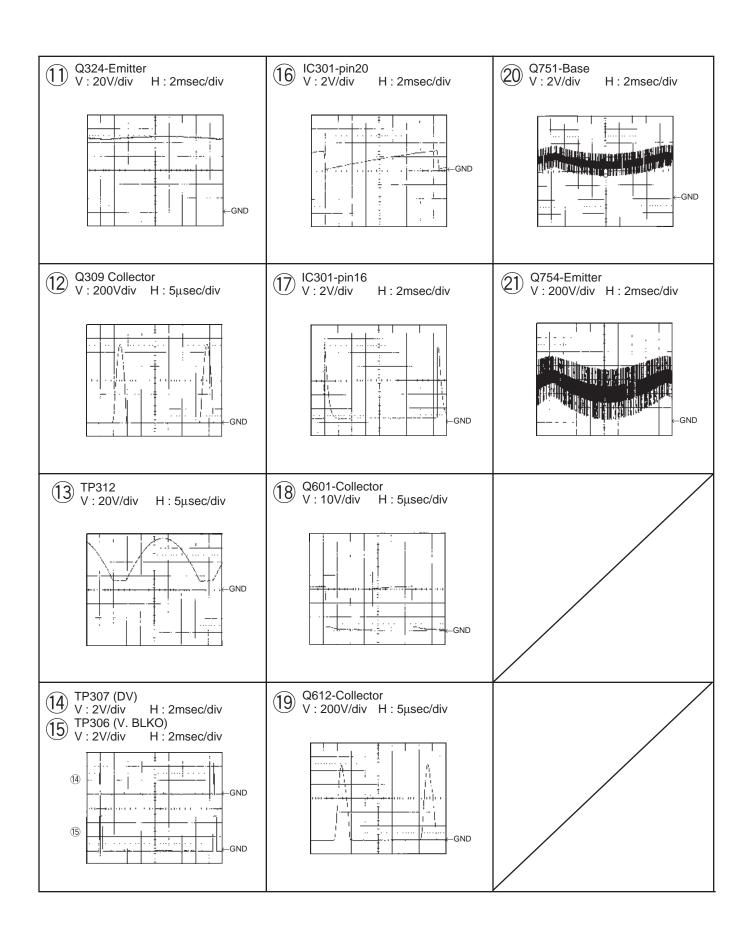
Picture quality: Standard Range: DC range (Unless otherwise noted)

Input signal Video signal: Color bar (NTSC, EIA)

Picture quality: Standard
Range: DC range (Unless otherwise noted)



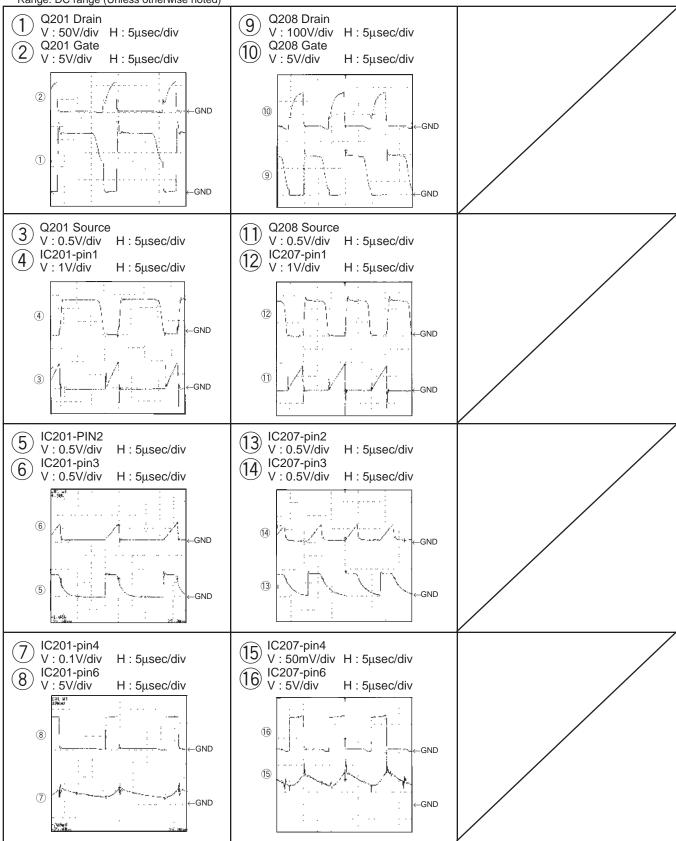
PRO-700HD



POWER SUPPLY ASSY

Input signal
Video signal: Color bar (NTSC, EIA)

Picture quality: Standard Range: DC range (Unless otherwise noted)



PRO-700HD

A3/3 TUNER u-COM ASSY (3/3)

IC2201 (PD5462B9)

Pin	Voltage	Pin	Voltage	Pin	Voltage	Pin	Voltage
No.	[V]	No.	[V]	No.	[V]	No.	[V]
1	P:0, S:50	21	5.0	41	5.0	61	0
2	0	22	0	42	4.8	62	0
3	3.3	23	5.0	43	0.6	63	0
4	3.1	24	5.0	44	0.6	64	0
5	5.0	25	5.0	45	0	65	0
6	5.0	26	0	46	5.0	66	4.8
7	0.5	27	5.0	47	5.0	67	0
8	5.0	28	0	48	0	68	0
9	5.0	29	0	49	4.9	69	0
10	5.0	30	2.1	50	4.9	70	0
11	5.0	31	2.1	51	4.9	71	0
12	5.0	32	0	52	4.9	72	0
13	5.0	33	5.0	53	4.2	73	5.0
14	2.5	34	0	54	4.2	74	5.0
15	3.1	35	0	55	4.2	75	0
16	0.2	36	0	56	0	76	5.0
17	0	37	3.0	57	0	77	0
18	0	38	0	58	5.0	78	0
19	0	39	0	59	5.0	79	0.3
20	5.0	40	5.0	60	0	80	0.3

IC2202 (PD5463B9)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	1.1	14	5.0	27	5.0	40	5.0
2	0.2	15	0.8	28	5.0	41	0
3	P:0,S:5.0	16	5.0	29	5.0	42	5.0
4	4.8	17	5.0	30	5.0	43	5.0
5	4.6	18	5.0	31	0	44	5.0
6	0	19	0.1	32	0	45	10.5
7	5.0	20	0	33	0	46	0
8	0	21	0.2	34	5.0	47	0
9	0.8	22	0.5	35	5.0	48	0
10	0.8	23	0	36	5.0	49	0
11	0.7	24	2.3	37	5.0	50	0
12	0.6	25	2.3	38	5.0	51	0
13	2.0	26	0	39	5.0	52	0

NOTE:

P (PIONEER): AWV1715 S (SHARP) : AWV1723

IC2203 (PD5497B9)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	1.1	14	0	27	5.0	40	0
2	0.2	15	0	28	2.3	41	0
3	P:0,S:5.0	16	0	29	2.3	42	0
4	0	17	0	30	5.0	43	0
5	0	18	5.0	31	0	44	0
6	0	19	0.1	32	0	45	0
7	0	20	0	33	0	46	0
8	0	21	0.2	34	0	47	0
9	0	22	0.5	35	0	48	0
10	0	23	0	36	0	49	0
11	0	24	2.4	37	4.9	50	0
12	0	25	2.4	38	0	51	0
13	0	26	0	39	4.9	52	0

F CONVER.DAC ASSY

IC1401 (PA0053B)

	`	,	
Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0.4	10	0.1
2	1.3	11	0.3
3	5.0	12	-0.9
4	0	13	0.3
5	-0.9	14	1.2
6	0	15	0
7	-1.0	16	-1.8
8	0	17	1.2
9	-5.0	18	-1.2

IC1402 (PA0053B)

10 1 102 (1 710000B)				
Pin	Voltage	Pin	Voltage	
No.	[V]	No.	[V]	
1	0.5	10	0	
2	1.2	11	0.4	
3	5.0	12	-0.9	
4	0	13	0.3	
5	-0.9	14	1.2	
6	0	15	0	
7	-1.0	16	-0.8	
8	0	17	1.2	
9	-5.0	18	-1.6	

IC1403 (PM0011AS)

(/				
Pin	Voltage	Pin	Voltage	
No.	[V]	No.	[V]	
1	0	22	-0.4	
3	-0.9	23	0	
3	0	24	0	
4	-1.0	25	0	
5	0	26	0	
6	0	27	0	
7	-5.0	28	0	
8	5.0	29	0	
9	-5.0	30	-0.3	
10	5.0	31	5.0	
11	5.0	32	5.0	
12	5.0	33	5.0	
13	5.0	34	5.0	
14	-2.1	35	-5.0	
15	0	36	0	
16	-0.8	37	0	
17	0	38	0	
18	-1.1	39	0	
19	0	40	0.4	
20	0	41	0	
21	5.0	42	2 0	

IC1404 (MC14066BF)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	-5.0	8	0
2	-5.0	9	0
3	0	10	0
4	-0.9	11	0
5	0	12	0
6	0	13	4.3
7	-5.0	14	5.0

IC1405 (MC14052BF)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	9	5.0
2	0	10	5.0
3	0	11	0
4	0	12	0
5	0	13	0
6	0	14	0
7	-5.0	15	0
8	0	16	5.0

IC1406 (MC14052BF)

Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	0	9	5.0
2	-1.0	10	5.0
3	0	11	0
4	0	12	0
5	-1.0	13	0
6	0	14	0
7	-5.0	15	0
8	0	16	5.0

IC1408 (PM0011AS)

Pin	Voltage	Pin	Voltage
No.	[V]	No.	[V]
1	0	22	-0.4
3	-0.9	23	0
3	0	24	0 0 0
4	-1.0	25	0
5	0	26	
6	0	27	0
7	-0.5	28	0
8	0	29	0
9	-5.0	30	0.7
10	5.0	31	5.0
11	5.0	32	5.0
12	5.0	33	5.0
13	5.0	34	5.0
14	-2.0	35	-5.0
15	0	36	0
16	-0.8	37	0
17	0	38	
18	-1.1	39	0
19	0	40	0
20	0	41	-0.2
21	5.0	42	0

IC1409 (PM0011AS)

1C 1409 (1 WOOT 1AS)					
Pin	Voltage	Pin	Voltage		
No.	[V]	No.	[V]		
1	0	22	0		
2	-0.9	23	0		
3	0	24			
4	-1.0	25	0		
5	0	26	0		
6	0	27	0		
7	0	28	0		
8	0	29	0		
9	- 5.0	30	0.4		
10	5.0	31	5.0		
11	5.0	32	5.0		
12	5.0	33	5.0		
13	5.0	34	5.0		
14	-2.0	35	-5.0		
15	0	36	0		
16	-0.8	37	0		
17	0	38	0.2		
18	-1.1	39	0		
19	0	40	0		
20	0	41	0.3		
21	5.0	42	0		

IC1410 (PM0011AS)

Voltage	į	
[V]	Pin No.	Voltage [V]
0	22	0
-0.9	23	0
0	24	0
-1.0	25	0
0	26	0
0	27	0
5.0	28	0
0	29	0
-5.0	30	0.5
5.0		5.0
5.0		5.0
5.0	33	5.0
5.0	34	5.0
-2.0	35	-5.0
0	36	0
-0.8	37	0
0	38	0
-1.1	39	0
0	40	0
0	41	-1.1
5.0	42	0
	[V] 0 -0.9 0 -1.0 0 5.0 0 -5.0 5.0 5.0 5.0 -2.0 0 -0.8 0 -1.1 0	[V] No. 0 22 -0.9 23 0 24 -1.0 25 0 26 0 27 5.0 28 0 29 -5.0 30 5.0 31 5.0 32 5.0 33 5.0 34 -2.0 35 0 36 -0.8 37 0 38 -1.1 39 0 40 0 41

PRO-700HD

IC1411 (PM0011AS)

1017	101411 (1 WOOT1740)				
Pin No.	Voltage [V]	Pin No.	Voltage [V]		
1	0	22	0		
2 3 4	-0.9	23	-0.5		
3	0	24	0		
4	-1.0	25	0		
5	0	26	0		
6	0	27	0		
7	5.0	28	0		
8	5.0	29	0		
9	-5.0	30	-0.7		
10	5.0	31	5.0		
11	5.0	32	5.0		
12	5.0	33	5.0		
13	5.0	34	5.0		
14	-2.1	35	- 5.0		
15	0	36	0		
16	-0.8	37	0		
17	0	38	0		
18	-1.1	39	0		
19	0	40	0		
20	0	41	-0.5		
21	5.0	42	0		

IC1412 (PM0011AS)

Pin	1/-14	Pin	1/-14
	Voltage		Voltage
No.	[V]	No.	[V]
1	0	22	-0.4
3	-0.9	23	-0.5
3	0	24	0.2
4	-1.0	25	0
5	0	26	0
6	0	27	0
7	0	28	0
8	5.0	29	0
9	-5.0	30	-0.5
10	5.0	31	5.0
11	5.0	32	5.0
12	5.0	33	5.0
13	5.0	34	5.0
14	-2.1	35	-5.0
15	0	36	0
16	-0.8	37	0
17	0	38	0
18	-1.1	39	0
19	0	40	0.1
20	0	41	0.2
21	5.0	42	0

N1/3 AV I/O ASSY (1/3)

IC6001 (CXA2069Q)

Pin	Voltage	Pin	Voltage	Pin	Voltage
No.	[V]	No.	[V]	No.	[V]
1	4	21	-	41	3.9
2	4.5	22	4	42	8.8
3	4	23	4.5	43	4.5
4	4.5	24	4	44	3.8
5	4.5	25	4.5	45	4.5
6	ı	26	4.5	46	-
7	-	27	•	47	4.5
8	4	28	-	48	-
9	4.5	29	4.5	49	4
10	4	30	4	50	4.5
11	4.5	31	4.5	51	4.5
12	4.5	32	-	52	4.5
13	-	33	-	53	3.9
14	-	34	-	54	4.5
15	4	35	0	55	-
16	4.5	36	-	56	3.3
17	4	37	4.5	57	0
18	4.5	38	4.5	58	4.5
19	4.5	39	3.8	59	4.5
20	-	40	4.5	60	4

В

С

D

4. PCB CONNECTION DIAGRAM

6

NOTE FOR PCB DIAGRAMS:

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- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name		
○ ○ ○ ○ B C E	B C E B C E	Transistor		
• <u>() () ()</u> B C E	B C E B C E	Transistor with resistor		
○ ○ ○ ○ D G S	D G S D G S	Field effect transistor		
(000 <u>000</u> 00		Resistor array		
0 0 0	— <u>—</u>	3-terminal regulator		

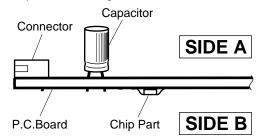
3. The parts mounted on this PCB include all necessary parts for several destination.

For further information for respective destinations, be sure to check with the schematic diagram.

4. Viewpoint of PCB diagrams

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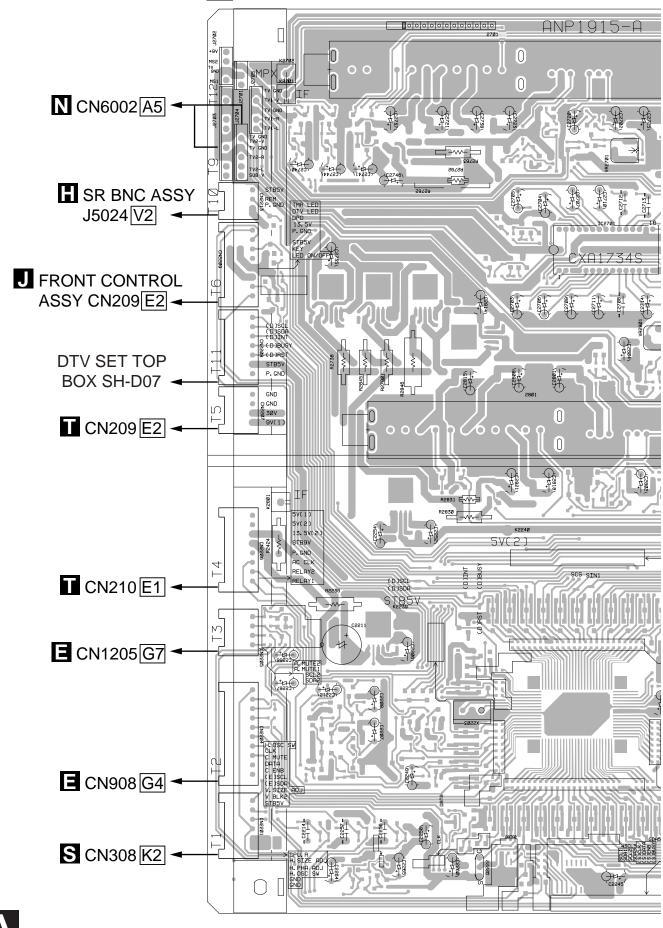


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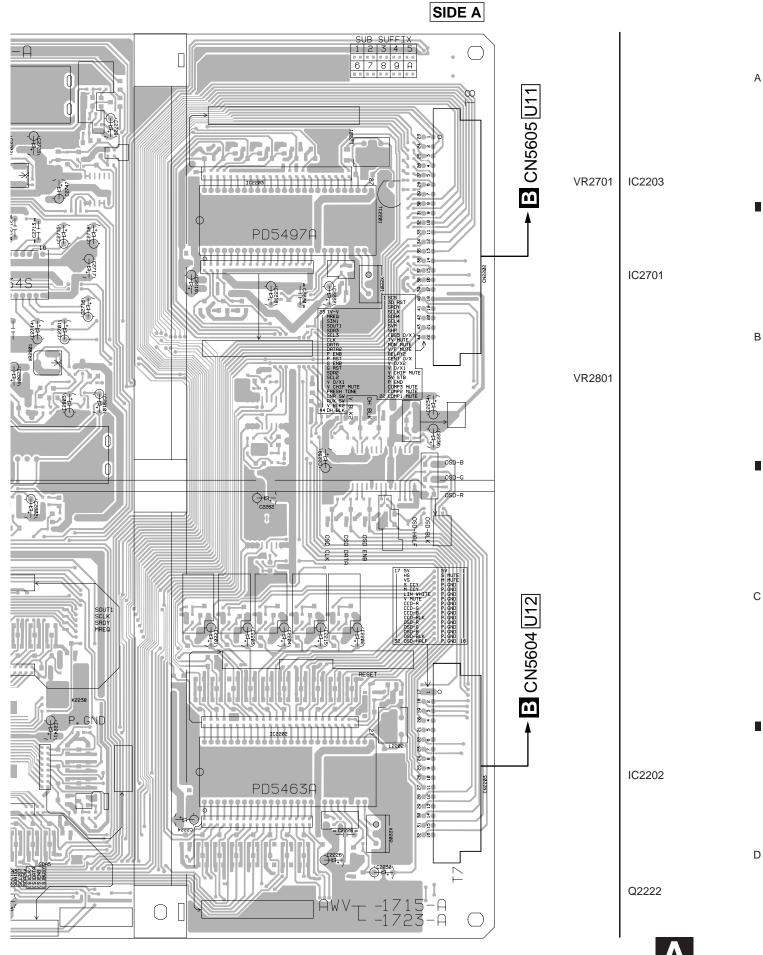
4.1 TUNER u-COM ASSY

A TUNER u-COM ASSY



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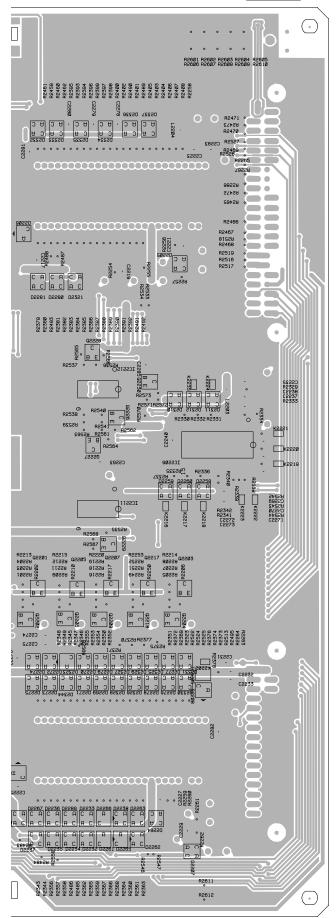
PRO-700HD



11:

A TUNER u-COM ASSY

SIDE B



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Q2706

Q2714 Q2712 Q2702 Q2701 Q2703 Q2707 Q2711 Q2713 Q2710 Q2705 Q2704 Q2715 IC2702

Q2717

IC2703 IC2704 IC2802 Q2809 Q2810 Q2228 Q2805 Q2802 Q2801 IC5515

Q2227 IC2206

IC2210 Q2808 Q2803 Q2804 Q2805 IC2211

Q2201 Q2205 Q2207 Q2229 Q2217 Q2203

IC2209 Q2202 Q2206 Q2208 Q2218 Q2204

IC2207

Q2216 Q2209 Q2219 Q2215

Q2210 Q2211 Q2212

Q2214

Q2213 Q2225

Q2220

Q2221

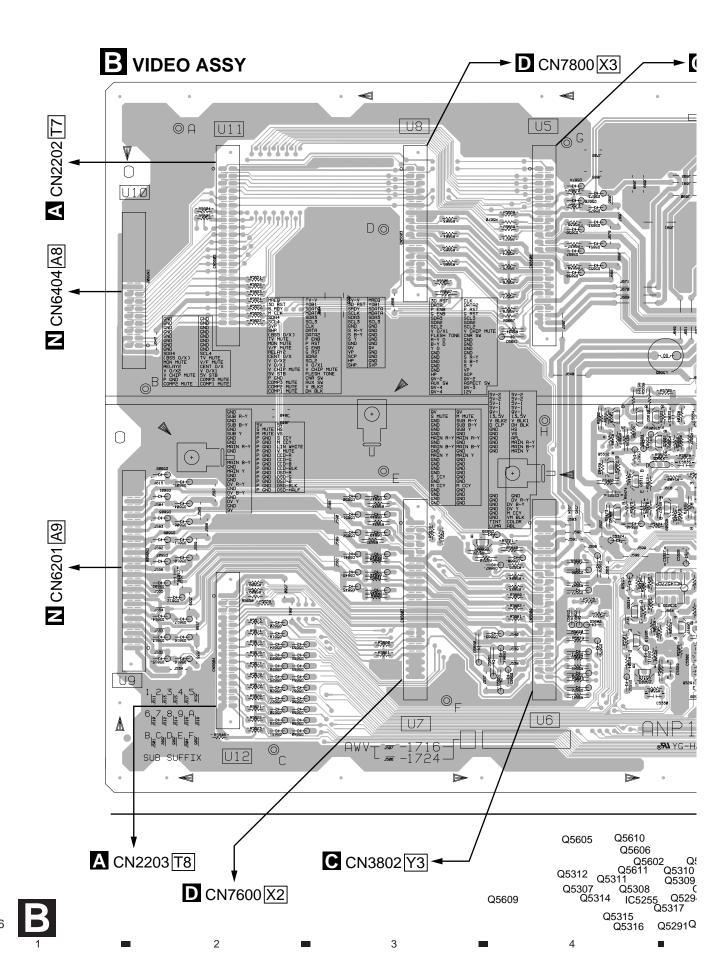
Q2223 Q2224 IC2208

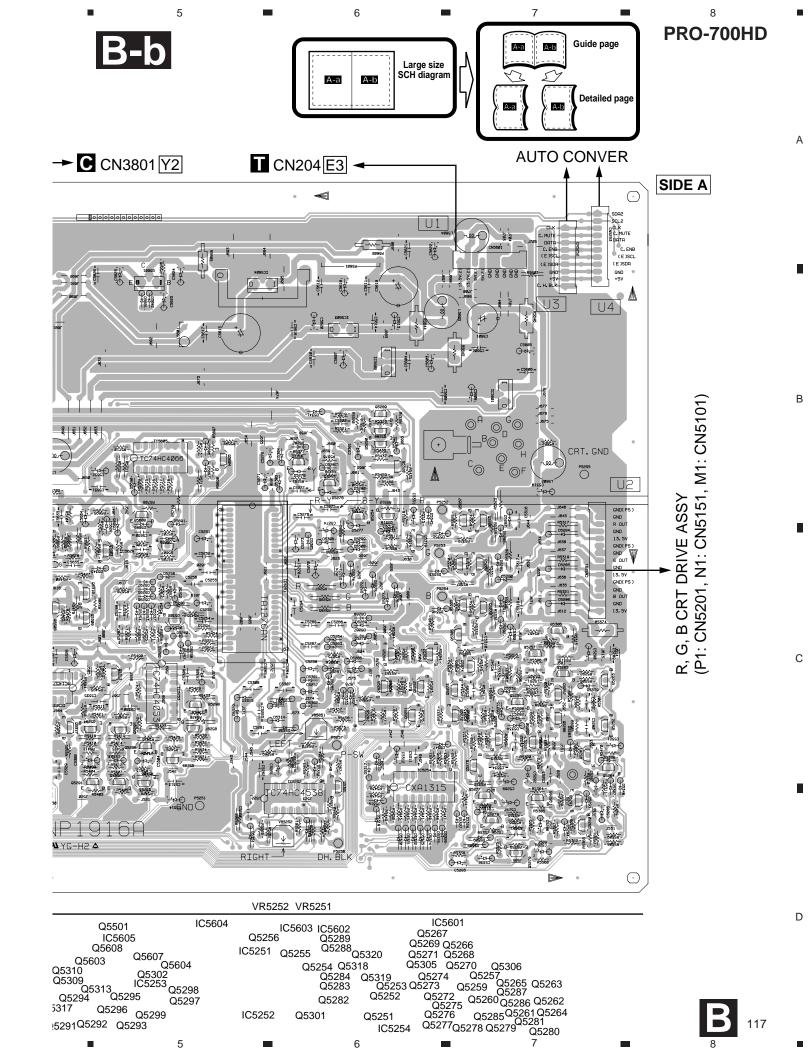
IC2204

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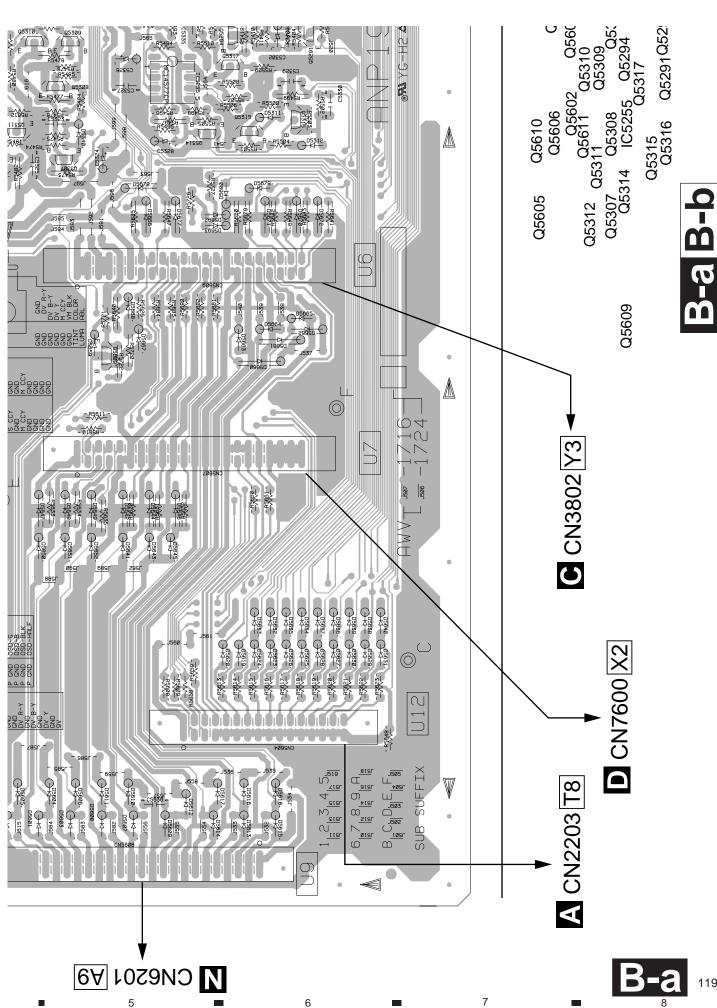
D



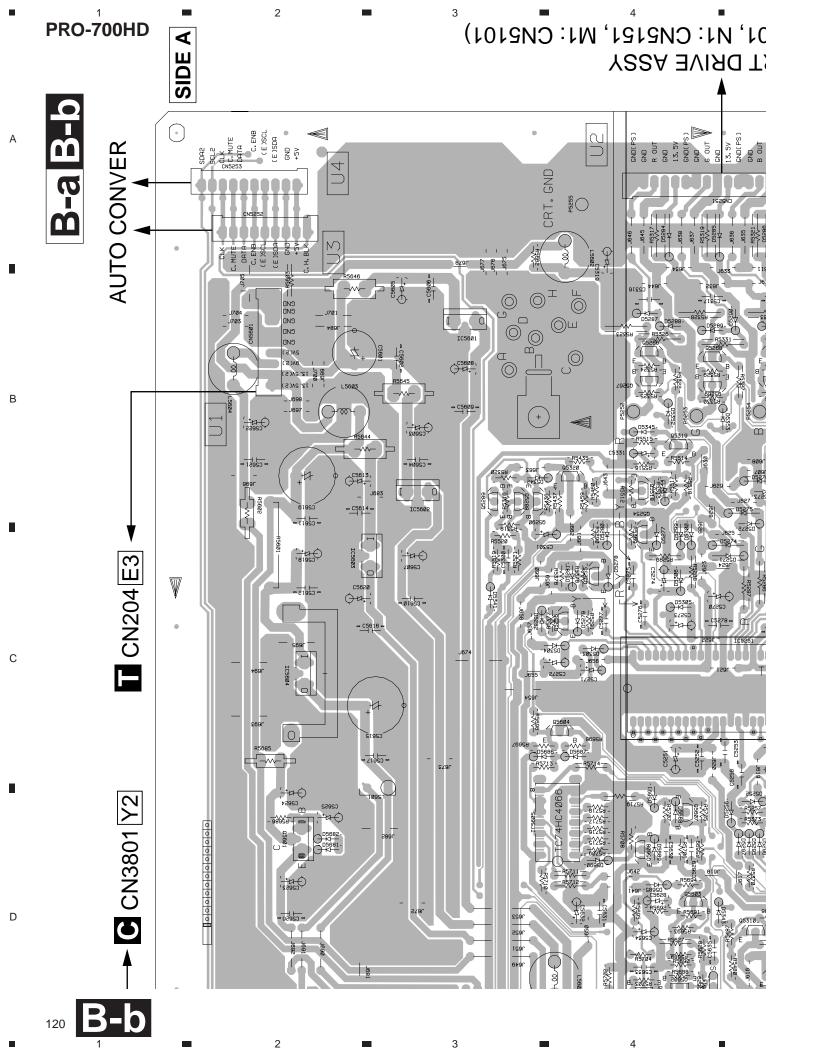


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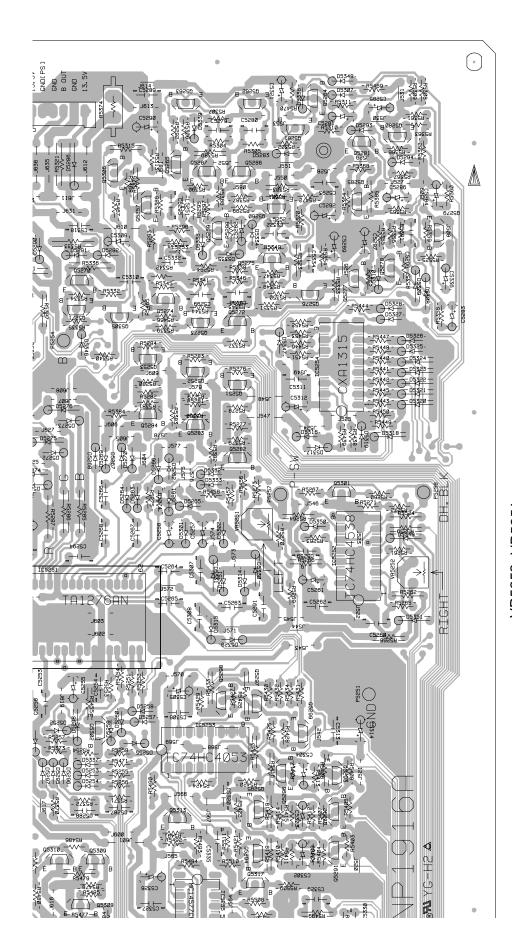


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R, G, B СRT D (Р1: СИ5201, I





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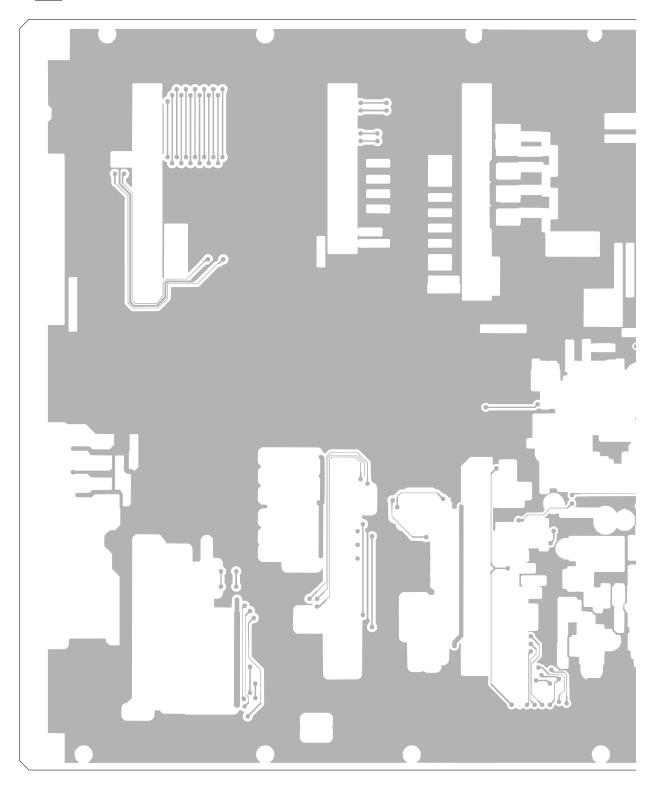
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VR5252 VR5251

Q5501 IC5605 Q5608

B-b

B VIDEO ASSY

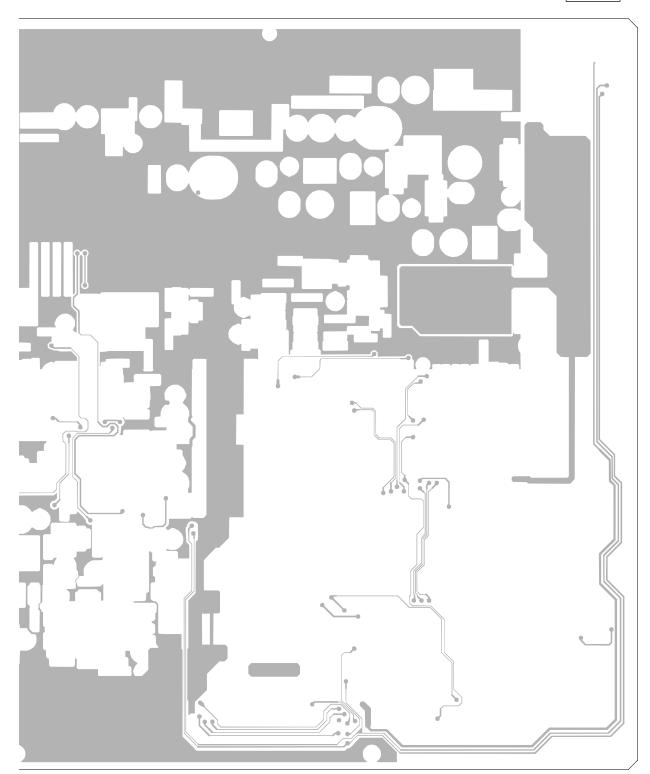


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SIDE B



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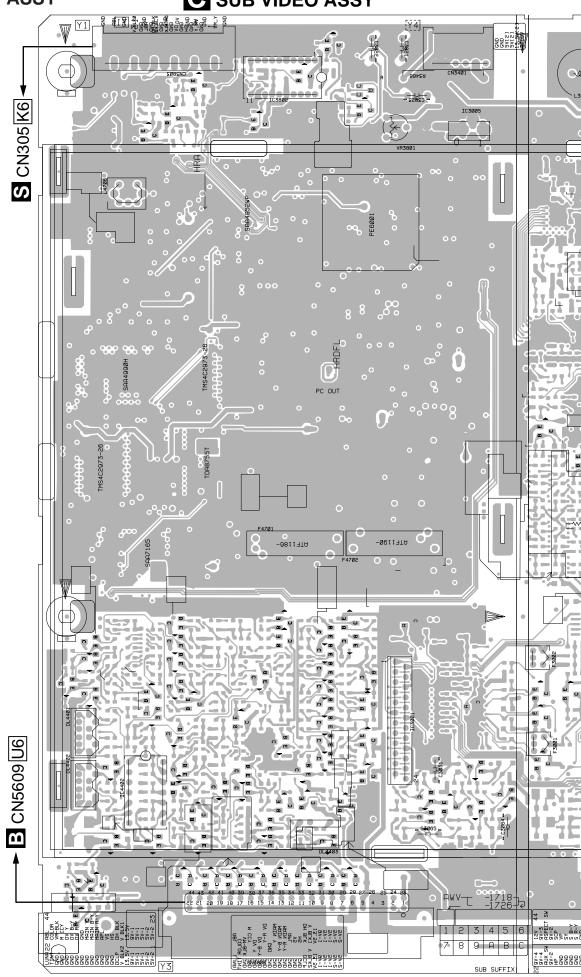
Α

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C SUB VIDEO ASSY

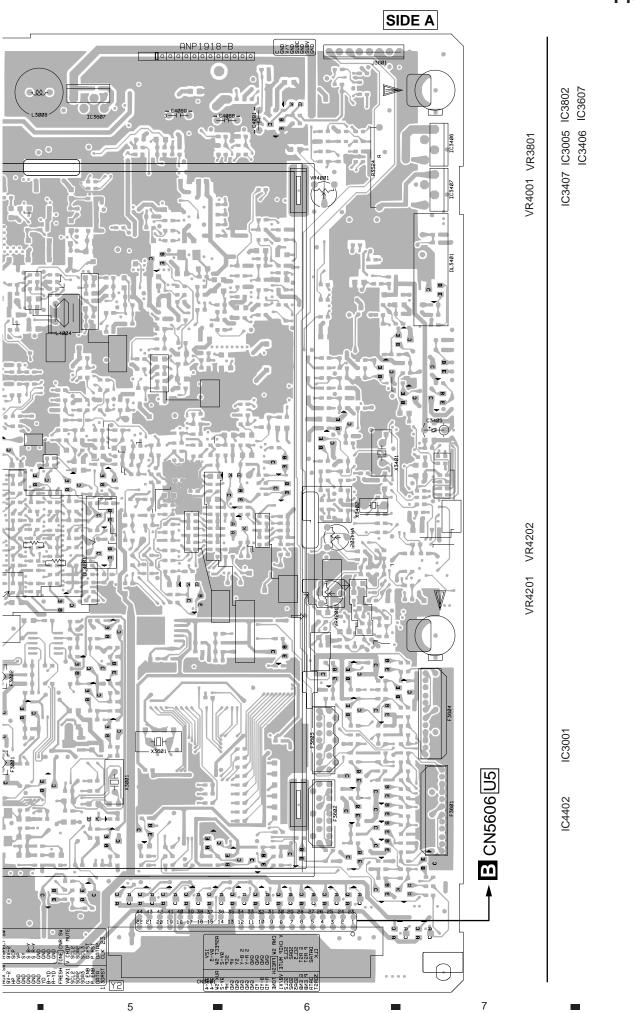




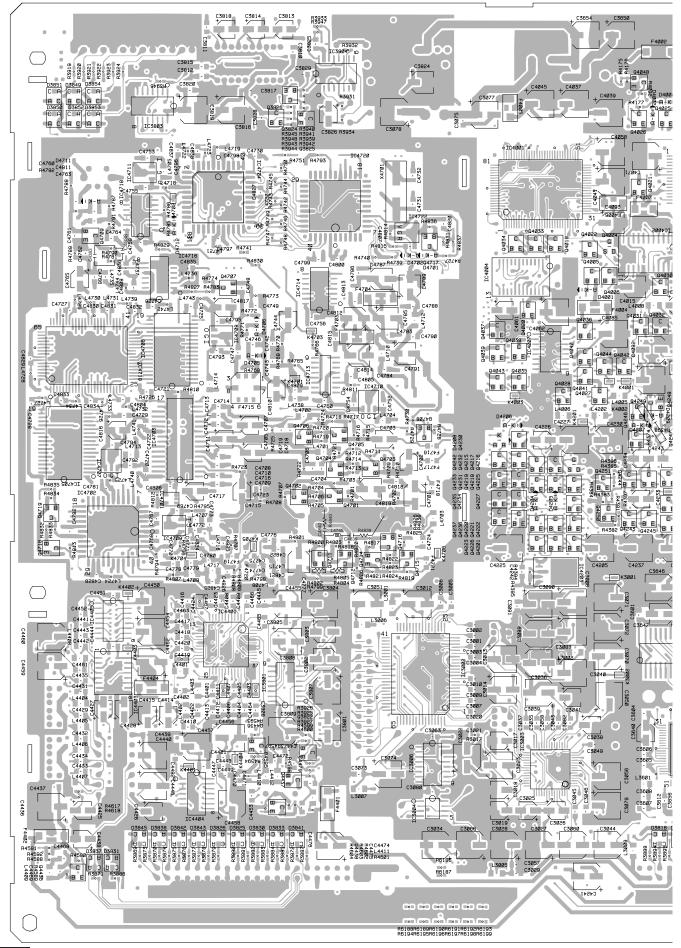
124

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С



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PRO-700HD

В

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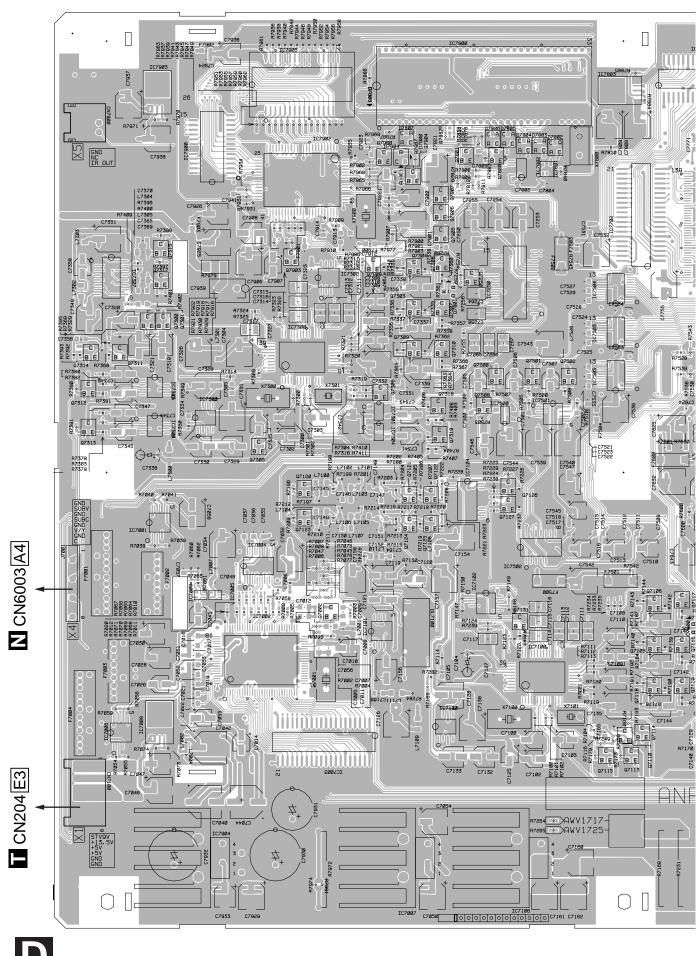
		SIDE B
	• •	
F4002 + C4005	G4892 + O 34846	<u></u>
4 <u>8</u> 48	108 + w IC4009 Q4045	C3454
* 85 D4004	03413 03412 C	
	2007 T T T T T T T T T T T T T T T T T T	23.35
1 0 0 9	†*************************************	
F4827 53	04014	
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O L4002 0 E B B B B E	04016 3 8 3 8	D C C B E B E 03404 03405
B E C4010 3 14007 (204918 04915 04918 04915 2275	C3422
31 G4832 C C C L4807	000409 003409 003409	
C 2001-31 F42 B E F4001 C4251	04229	Q C3452
Q4207 C	+ + + + + + + + + + + + + + + + + + + +	₩ C3418
M G C C C C TO		59
267 7 886 PH	24 P B B B C C24 M	103401
1 C C 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
B E ST KARS	100 04202 33 04202 33 04202	
B E C 3 C 04245	B E 23466 L3468	
237 C4207 @C4219 C4208 C © 1C3646 © 1C3605 IC3609	4209 C4206 L3401 L3405	IC3403 ₁₀ IC3402 C3416
1000042	Sa Se B E B E	C3450
3647 +1C3603 +	SS 12 1404 1450 153657 1455 155657 15	C3860
	2 83 82 C3629 8 82 C3629 8 82 C3629	
	C5651	5 99 5 99
	23658	3627
C3686		5 Spirit
C3605	C362Ø	K3602 K3601
C3608 2195 0 1C3605 0	C3665	#9853 + C3662
03818 03821 03819 03848 03815 0 0 0 0 0 0 0 0 0 0	C3626 C3625 D3813 D3803 D3801 D3806 D3805 D3811 D H D H D H D H D H D H	C3664
		D3812 D3804 (3 H) (3 H) (3 H) 2
77	agal mal sici	В 20
		73 73 73 73 73 73 73 73 73 73 73 73 73 7

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CATON CATO	C4707 C4710 C4706 C4736 C4714 C4718 C3803 C3826 C4008 C4736 C4719 C4709 C4710 C4709 C4710 C4709 C4711 C4709 C4711 C4709 C4708 C4708 C4711 C4709 C4711 C4709 C4708 C4709 C4711 C4709 C4701 C470	
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Q4435 IC3845 Q4437 IC3006 Q4436 IC4403 IC3603 IC4405 Q4711 Q4438 IC4404 IC3602 Q3822 IC3801 IC4401 Q4712 IC3004 IC3603 IC3604 Q3416 Q4714 IC3604 Q3802 Q3419 Q4715 IC3605 IC3606 IC3605 IC3606 IC3609 IC3609 IC3609 IC3609 IC3609 IC3609 IC3609 IC3402		
	Q4435 IC3845 Q4437 IC3006 Q4436 IC4403 IC3603 IC4404 Q4712 Q4438 IC4404 IC3602 Q3822 IC3801 IC4401 Q4712 IC3004 IC3602 Q3822 IC3804 Q3416 Q4714 IC3601 Q3002 Q3419 Q4715 IC3606 IC3605 IC3609 IC3609 IC3609 IC3609 IC3609 IC3609 IC3609 IC3609	



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PRO-700HD

SIDE A

IC7781 CN5603 U8 \mathbf{m} CN5607 U7 M

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IC7709 IC7903 IC7905 IC7805

IC7704

IC7900 Q7900 Q7801 Q7800 IC7802 IC7801

1C7700 Q7907 Q7906

Q7905

Q7315 Q7304 Q7308

IC7307 Q7903 IC7302 Q7908 Q7250

IC7520 Q7303 Q7308

Q7300 IC7300 Q7700

Q7309 Q7310 IC7503 IC7703 IC7706

Q7314 Q7311 Q7500 Q7501 Q7502 IC7705 IC7708 Q7703

Q7312 IC7305 IC7302 Q7305 Q7318 Q7508 IC7500 IC7501

Q7313 IC7306 IC7301 IC7304 Q7319 Q7701

Q7305 Q7319 IC7602 IC7601 IC7603 Q7704

Q7120 Q7121 Q7122 IC7104 Q7126 Q7702

IC7001 IC7004 Q7123 Q7124 Q7125 Q7606 IC7604 IC7707 Q7705

IC7502

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IC7009 IC7005 IC7102 Q7131 Q7106 Q7117 IC7600 IC7710

IC7002 Q7002 IC7101 IC7100 Q7105 Q7116 Q7322

IC7123 Q7118 Q7119 Q7507

Q7114 Q7111 IC7507 Q7506

IC7006 IC7008 IC7003 Q7115 Q7113 Q7110 Q7112 Q7321

PRO-700HD

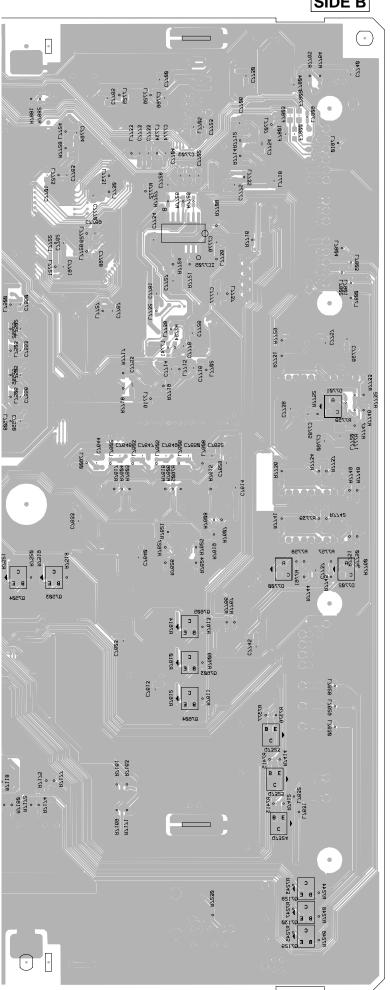
SIGNAL ASSY

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PRO-700HD SIDE B



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Q7901 IC7705

Q7311 Q7902 Q7909

Q7302

Q7320

Q7007 Q7009 Q7505 Q7504 Q7503

Q7008 Q7100 Q7102 Q7101

Q7002 Q7108 Q7603

Q7005 Q7003 Q7604 Q7323

Q7004 Q7001 Q7109

Q7104 Q7325

Q7107 Q7324

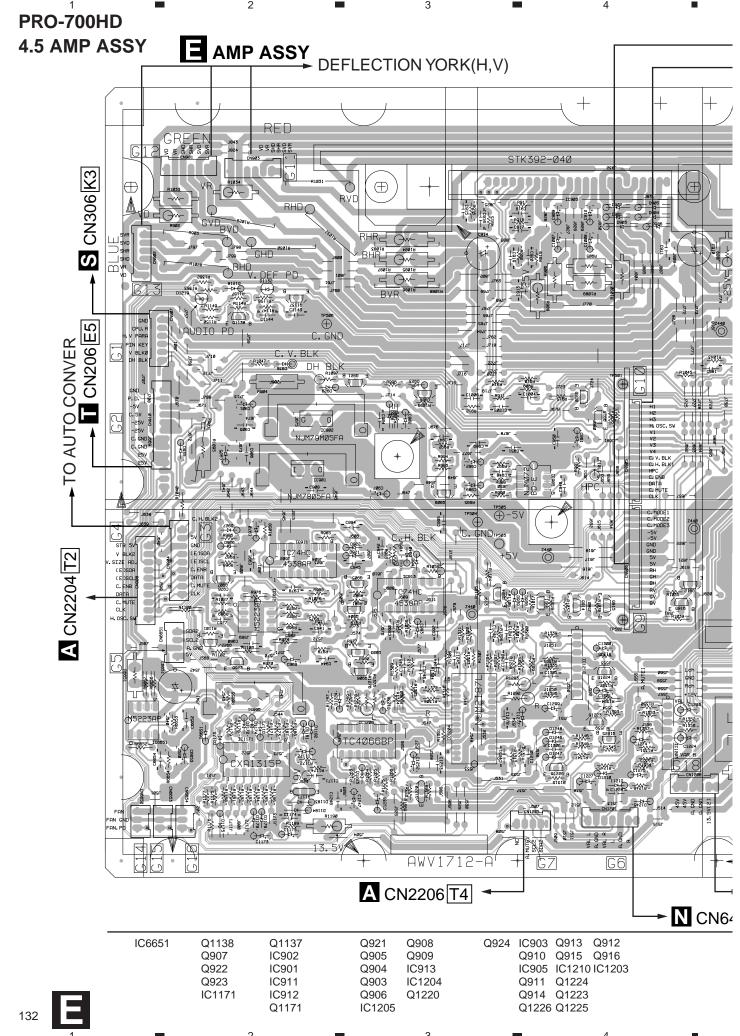
Q7904 Q7128 Q7130 Q7129

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IC7007 IC7106 IC7105

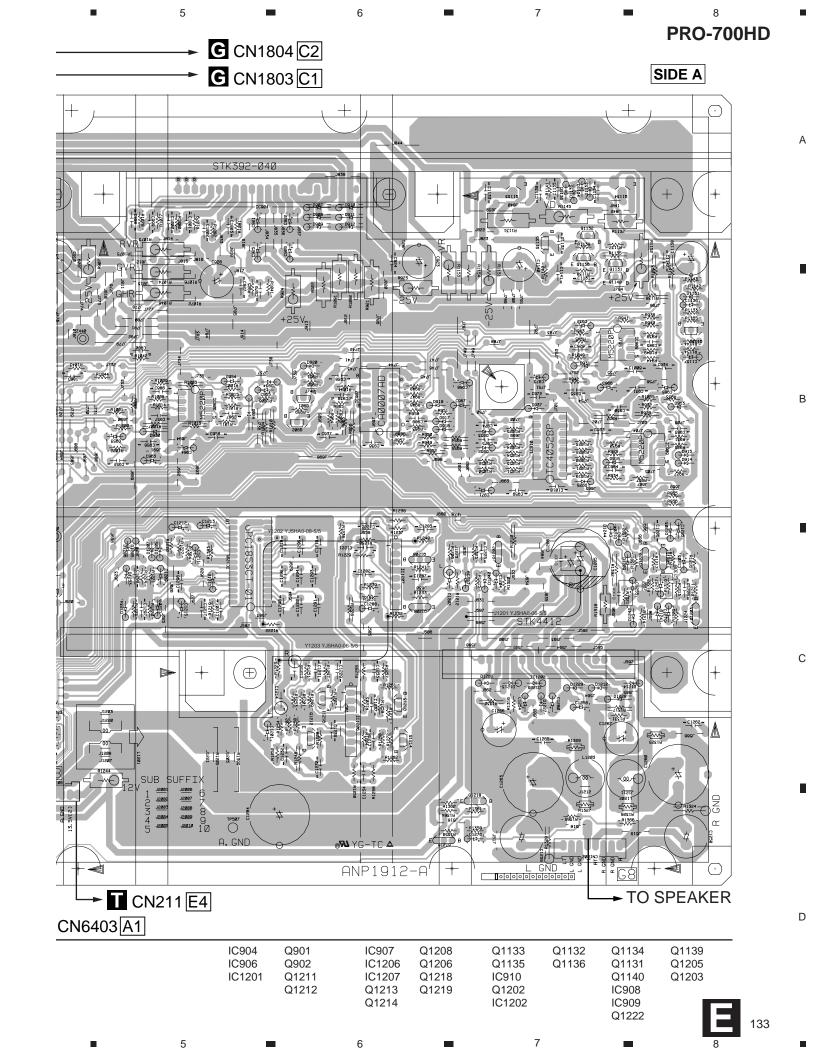
В

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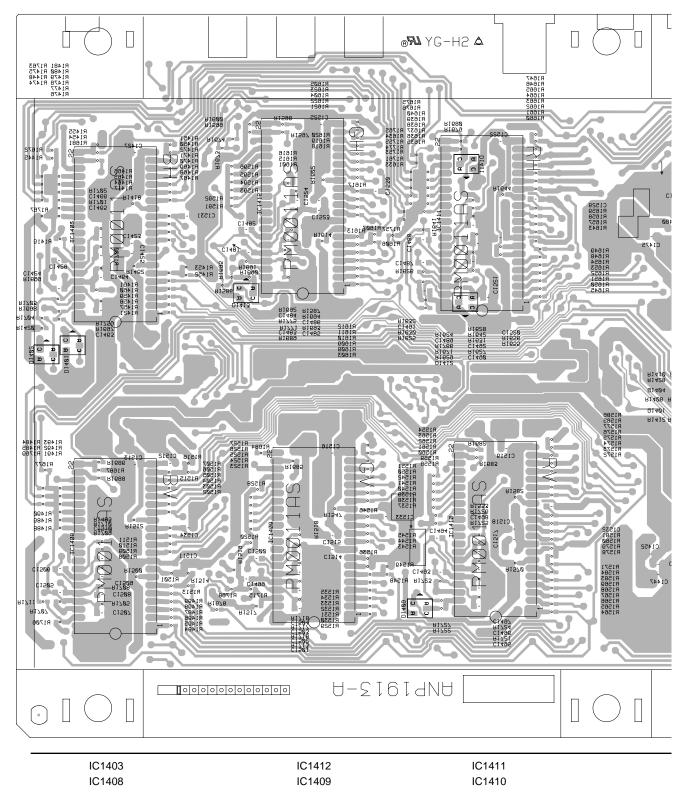
2

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4.6 CONVER.DAC ASSY, CONNECTOR ASSY

E CONVER.DAC ASSY



FG

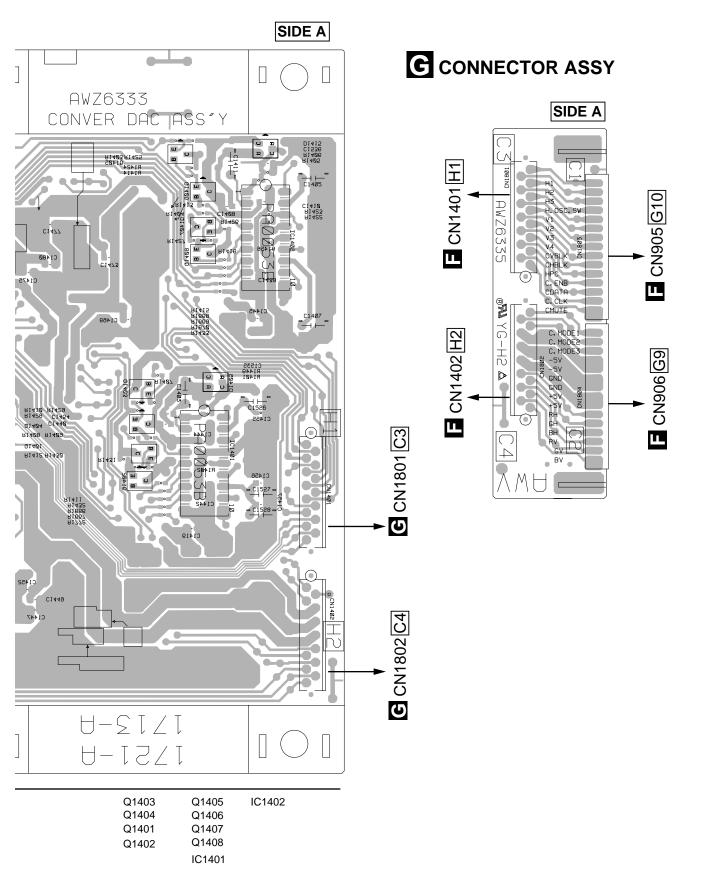
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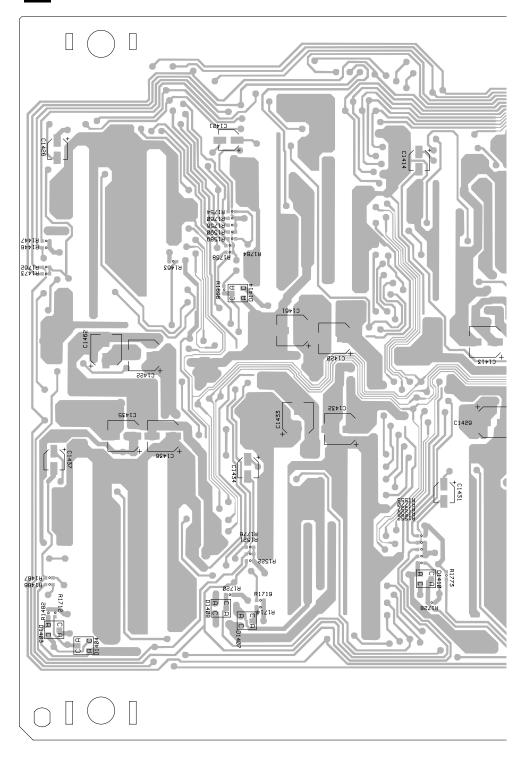
FG

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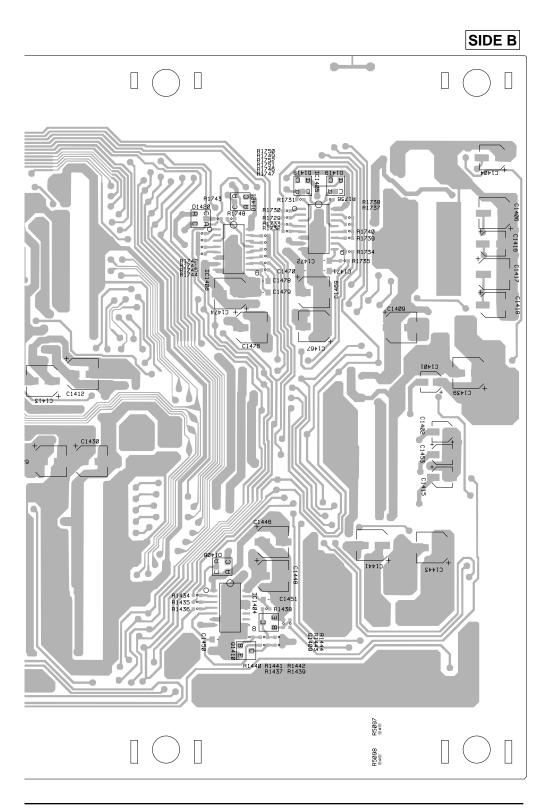


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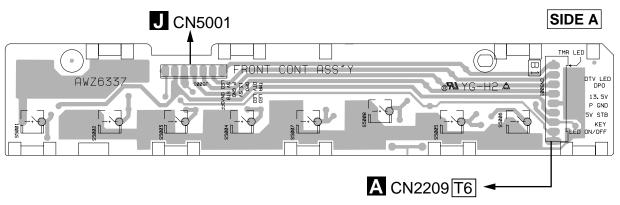
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IC1404 Q1410 IC1405 Q1409

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J FRONT CONTROL ASSY



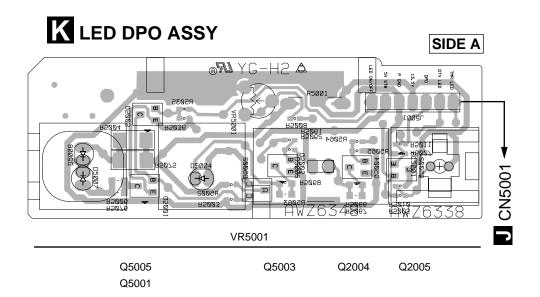
J FRONT CONTROL ASSY

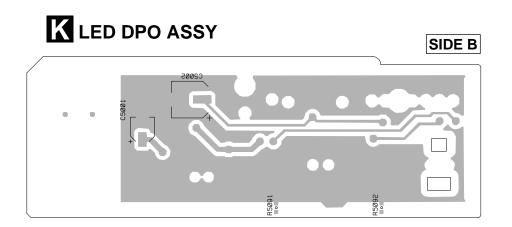
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SIDE B

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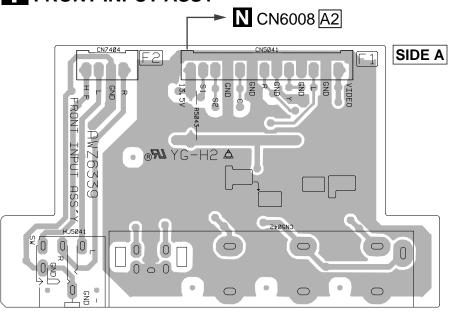




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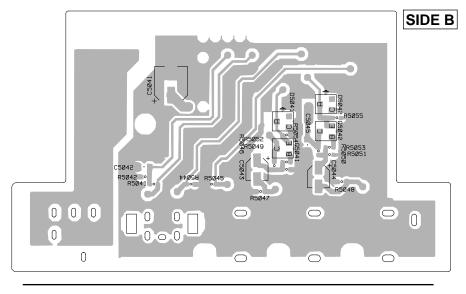
K 1

FRONT INPUT ASSY



FRONT INPUT ASSY

2



Q5041 Q5042

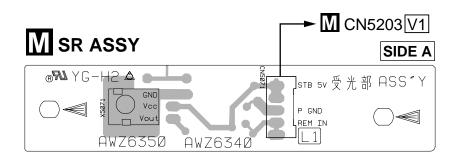
4.10 POWER SW ASSY, SR ASSY

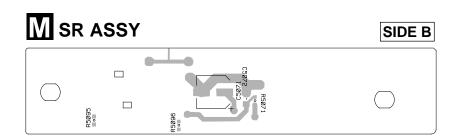
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POWER SW ASSY CN5071 L1 SIDE A AWZ6341 6.5mm PW SW ASS Y





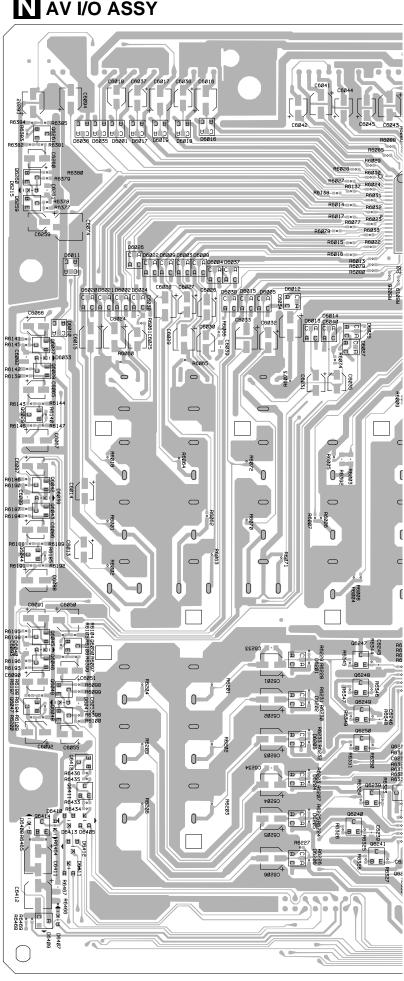
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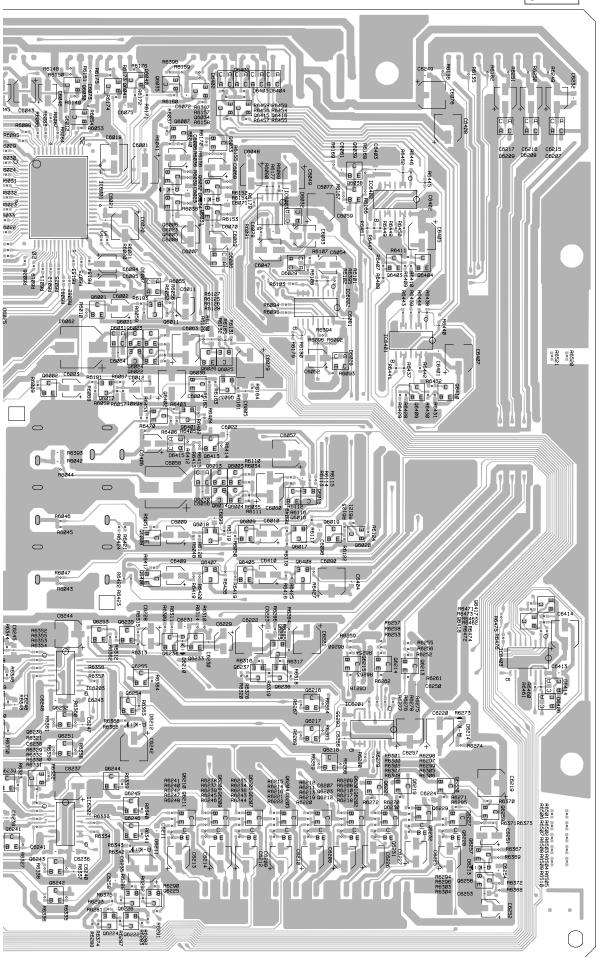
N AV I/O ASSY

				Q6261	Q6012	Q6030	Q6041	Q6040	Q6007	Q6035	Q6034	Q6415	Q6416	
					Q6260	Q6259	IC6001	Q6032	IC6003	Q6038	IC6402	Q6033	Q6039	
									Q6005	Q6006	Q6031	Q6403	Q6404	
	Q6028	Q6027	Q6001	Q6021	Q6023	Q6011	Q6002	Q6022	Q6024	Q6036	Q6025	IC6002	IC6401	
									Q6029	Q6010	Q6037	Q6409	Q6410	
						Q6043	Q6042	Q6413	Q3013	Q6003	Q6014	Q6004	Q6015	
							Q6044	Q6008	Q6018	Q6016	Q6017	Q6019	Q6020	
								Q6406	Q6407	Q6405	Q6408	Q6418	Q6417	
									Q6045	Q6050	Q6247	Q6253	Q6235	
								Q6234	Q6233	Q3215	Q6214	Q6213	IC6403	
							Q6047	Q6046	Q6049	Q6248	Q6255	Q6237	Q6236	
								Q6048	Q6249	Q6252	IC6203	Q6254	Q6216	
							Q6412	Q6250	Q6238	Q6251	Q6217	Q6218	IC6201	
			Q6411	Q6239	Q6244	Q6210	Q6208	Q6206	Q6204	Q6201	Q6221	Q6219	Q6220	
06414	Q6240	IC6202	Q6245	Q6211	Q6209	Q6207	Q6205	Q6203	Q6202	Q6230	Q6229	Q6227	Q6258	
											Q6241	Q6246	Q6212	
									Q6234	Q6231	Q6232	Q6228	Q6257	
										Q6243	Q6226	Q6225	Q6256	
											Q6242	Q6224	Q6222	

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SIDE A



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PRO-700HD

AV I/O ASSY

CN5041 F1

CN5041 F1

- D **1** J5025 V3 8 0 0 0 \bigcirc **6**0 (00 $\mathbf{C}(0)$ **C**(0) **C**(0) (0) **C**(0) (0) $\mathbf{C}(0)$ 0 0 0 0 0 0 (1) 00 (0) 0 0 0 0 0 **C**(0) **C**(0) 0 **C**(0) **C**(0) 0 **C**(1) **C**(0) 0 0 A8 ►DTV SET TOP BO

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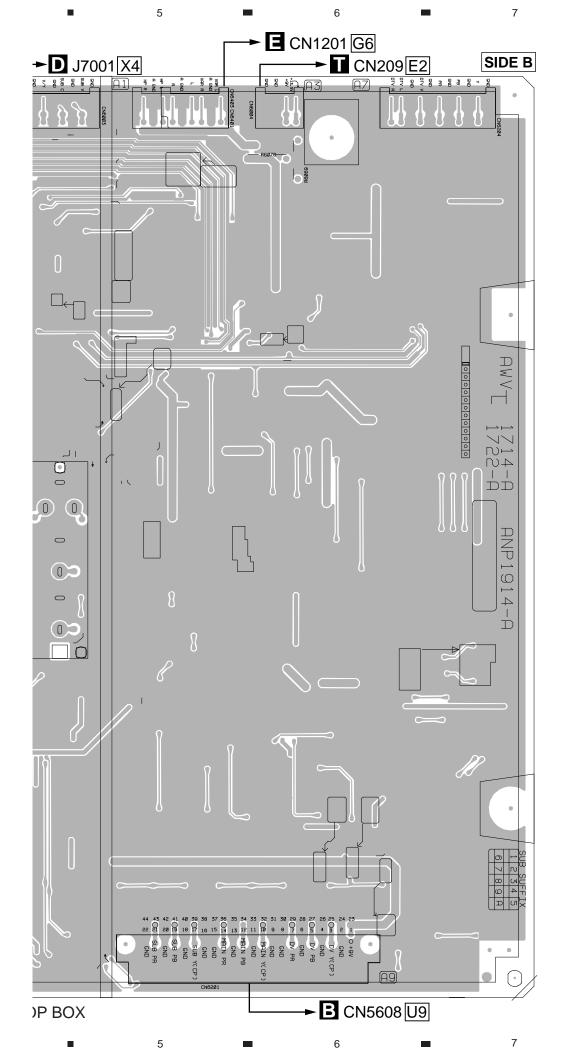
С

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В

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N.

→ **T** CN201 E9 O AC IN ASSY ®**₹**¥YG T_sGND +BCSW1 SUB SUFFIX T CN208 E8 B(SW2 T CN202 E10 ◀

> Q105 Q101 Q102 Q104 Q106 Q103

IC102

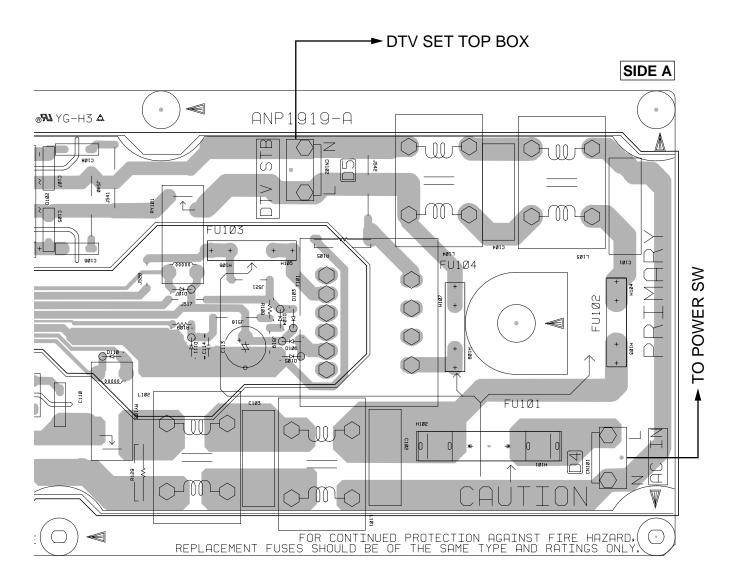
IC101

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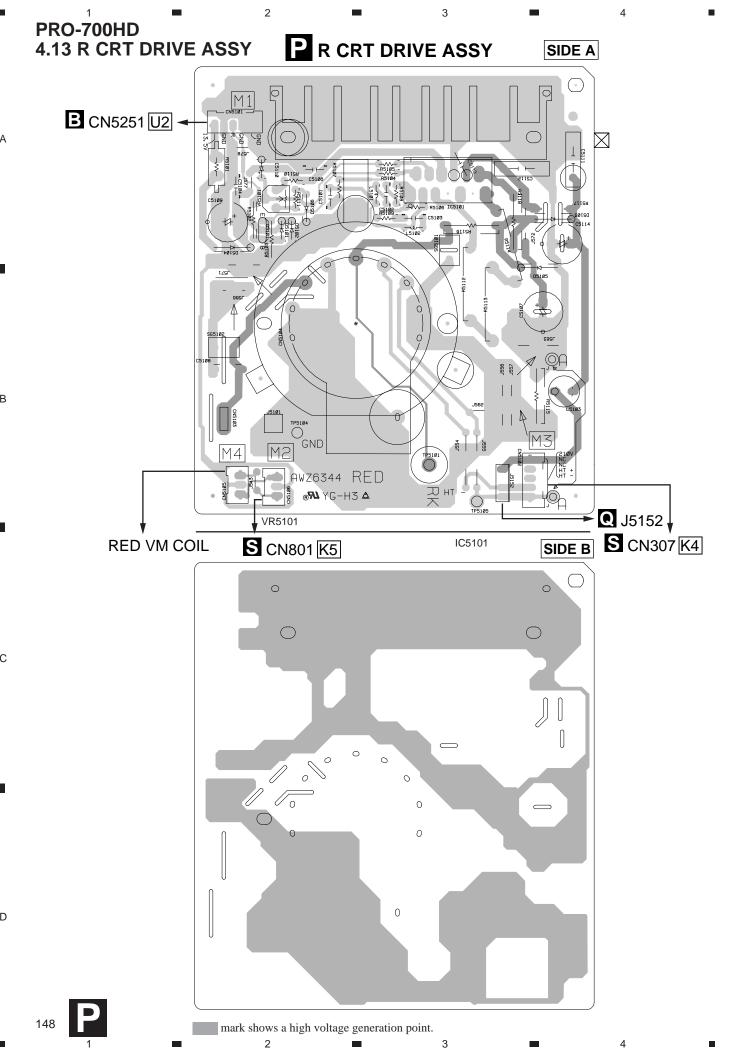
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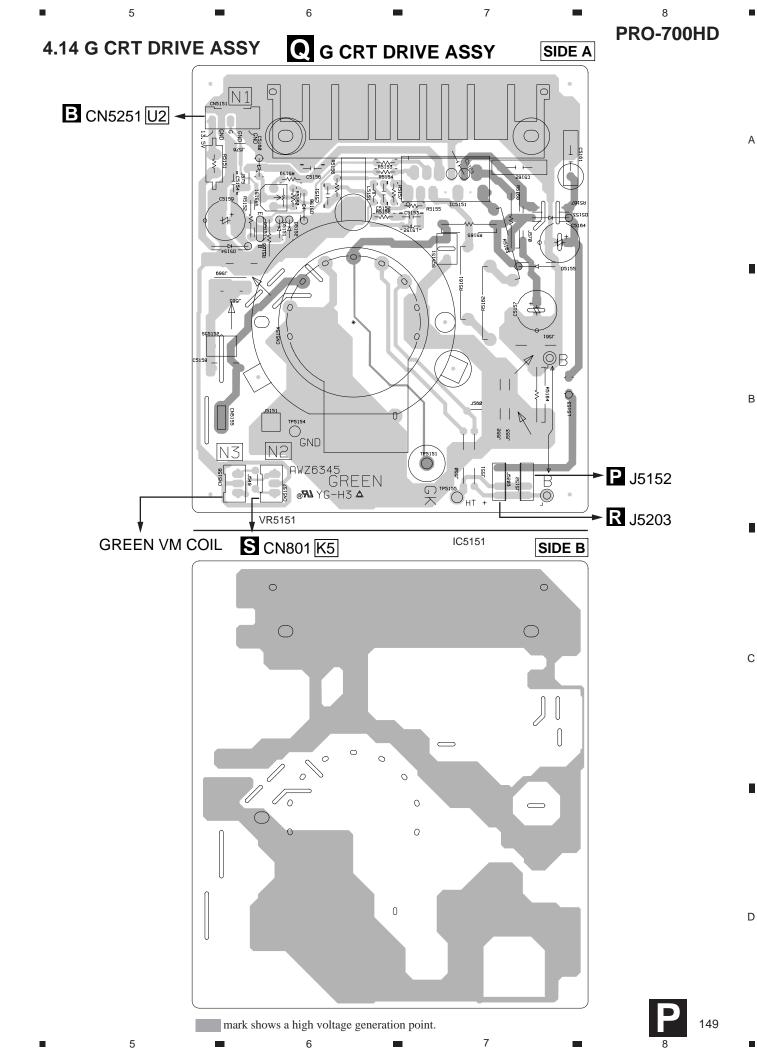
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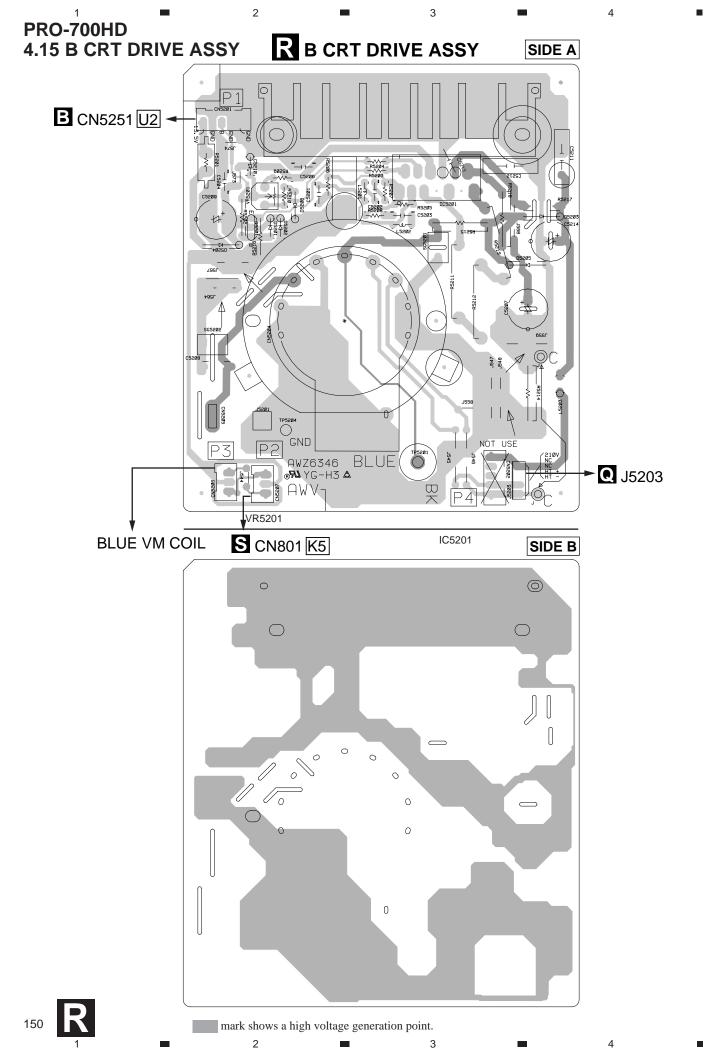
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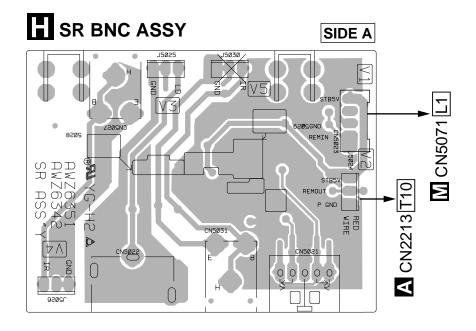


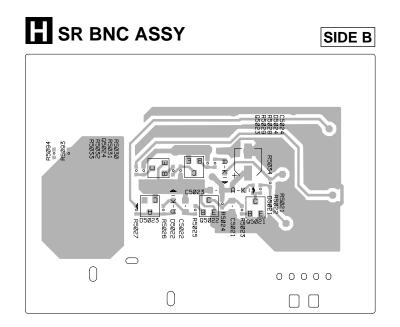


4.16 SR BNC ASSY, R CRT DRIVE ASSY

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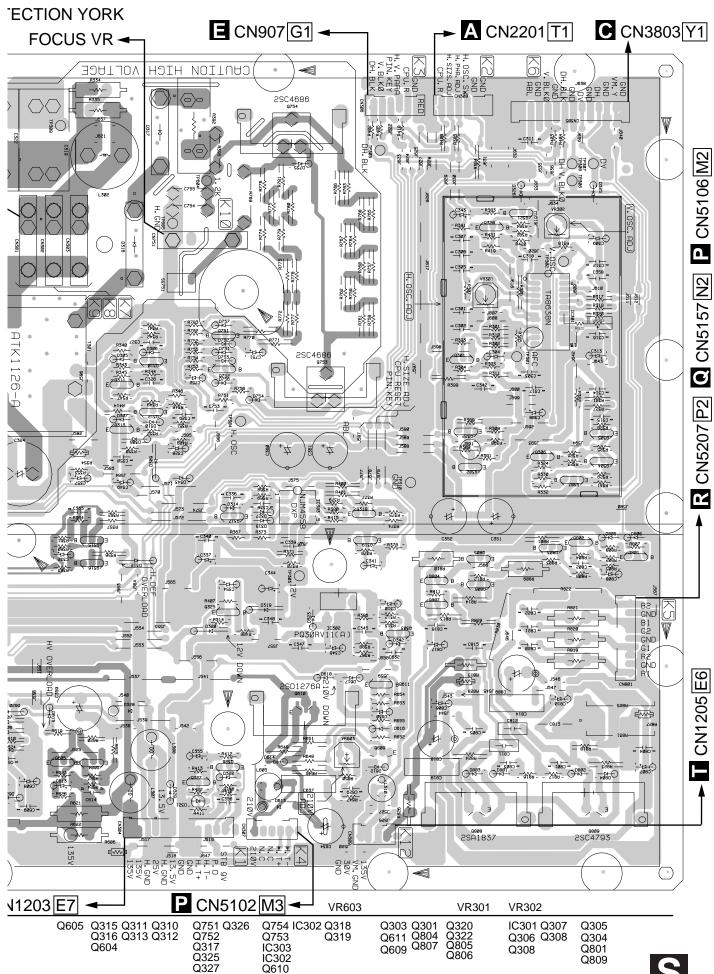
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3 PRO-700HD 4.17 DEFLECTION SERVICE ASSY H. DETEC1 → HV CR BLOCK CRT STAND S DEFLECTION SERVICE ASSY J6Ø1 CRT GND HV. ADJ (tsip) HV. DETECT Tests CAUTION H. GND HIGH TAGE 71 **ANP191** 1 - A 1731 11-A A-8511JTA $\dot{\mathbb{D}}$ HTK1127-SUB SUFFIX **®™** YG-M3 △ **T** CN120 VR601 VR602 Q308 IC601 Q612 Q601 Q614 Q608 Q603 Q324 Q309 Q602 Q314 Q607 Q606 Q613 mark shows a high voltage generation point (excepting the charged section). 2 3

D



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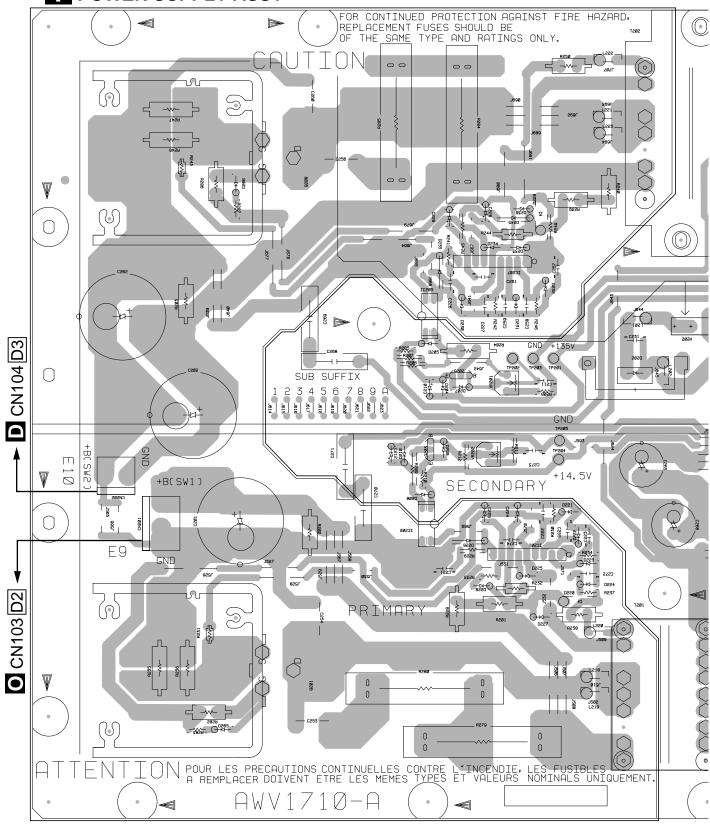
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С

4.18 POWER SUPPLY ASSY

T POWER SUPPLY ASSY



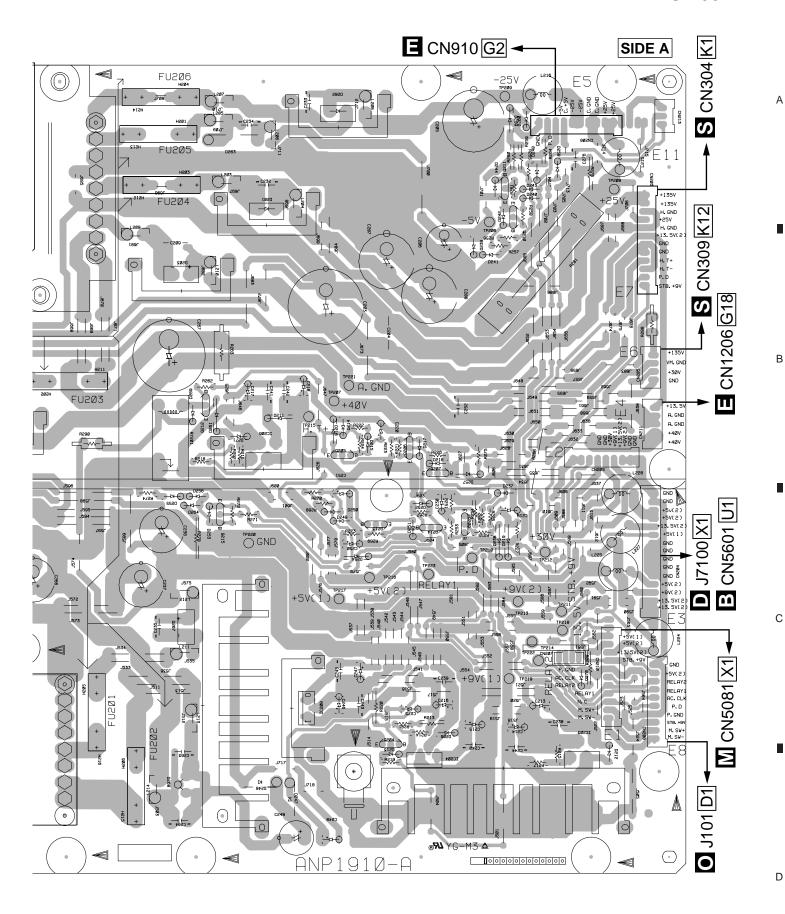
VR202 VR201

IC205 Q202 Q203 IC202 IC207 IC201

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Q212 IC206 Q205 Q213 Q206 Q207 Q211 Q210 IC203 Q215 IC208 Q204 Q214 Q209 IC204





ORDER NO. ARP3024

PROJECTION MONITOR RECEIVER PROJECTION MONITOR RECEIVER OF THE P

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Туре	Model PRO-700HD	Power Requirement	Remarks
KUXC/CA	0	AC120V	

• The PRO-700HD service manual is composed of ORDER NO. ARP3024 and ORDER NO. ARP3013. Use these two manuals as one set. For other details, refer to the separate manual (ORDER NO.ARP3013).

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IC DIAGRAM22 ARP3013	
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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER ELECTRONIC (EUROPE) N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER ELECTRONIC CORPORATION 1998

5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω $47k\Omega$ 0.5Ω 1Ω

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

- Parts marked by ☆ are important parts which relate in X-rays radiation. If any of these parts need to be replaced, always replace with specified parts.
- Parts marked by × are important parts which relate in X-rays radiation. If a failure occurs in any of these parts, replace the printed circuit board assembly where the relevant part has already been adjusted as a working component. Do not replace the actual part itself. If any part marked by × is replaced, there is danger of being exposed to X-rays.

Mark	No. Description	Part No.	Mark No. Description Part No.
LIST	OF ASSEMBLIES		△ Q201 ,Q208 2SK1938-R
		010/1/4740	D220 ,D229 ,D246 ,D247 10DF2
☆	POWER SUPPLY ASSY	AWV1710 AWV1731	
×	DEFLECTION SERVICE ASSY AMP ASSY		D205 -D209 ,D211 -D213 1SS254
	AIVIP ASS I	AWV1712	D215 -D219 ,D238 ,D240 -D244 1SS254
NCD	CONV.DAC ASSY	A1A/1/4742	D248 ,D250 -D254 ,D256 -D259 1SS254
NOP	1	AWV1713	D261 ,D264 ,D269 ,D271 1SS254
	CONVER.DAC ASSY	AWZ6333	D268 D10SC4M
	CONNECTOR ASSY	AWZ6335	
	FRONT CONTROL ASSY	AWZ6337	D203 D3L60
	LED DPO ASSY	AWZ6338	D267 D5S9M
	FRONT INPUT ASSY	AWZ6339	D263 ERB93-02L3
	SR ASSY	AWZ6340	D228 ,D245 ,D260 HZS18L
	POWER SW ASSY SR BNC ASSY	AWZ6341 AWZ6342	D204 ,D210 ,D237 ,D239 HZS6C2L
			D225 ,D234 ,D265 ,D266 MA723
	AV I/O ASSY	AWV1714	D227 ,D236 MTZJ20
	TUNER u-COM ASSY	AWV1715	D226 ,D235 RD12ESB
	VIDEO ASSY	AWV1716	D214 ,D221 -D224 ,D230 -D233 RD5.1ESB
	SIGNAL ASSY	AWV1717	D249 ,D255 RD5.1ESB
NSP	AC IN, CRT SERVICE ASSY	AWV1732	D201 ,D202 ,D262 YG911S2R
	—AC IN ASSY	AWZ6353	COILS AND FILTERS
	R CRT DRIVE ASSY	AWZ6344	
	— G CRT DRIVE ASSY	AWZ6345	L215 ,L216 ,L224 ,L225 ATH-059
	└─B CRT DRIVE ASSY	AWZ6346	L227 ,L228, L229 ATH-059
			L218 ,L221 ,L223 ATX1021
	SUB VIDEO ASSY	AWV1718	TRANSFORMERS
	TV FRONT END SYSTEM UNIT	AXF1084	
	RF SW	AXF1098	
			SWITCHES AND RELAYS
			RY201 ASR1050
\Box	DOWED OUDDLY A	001/	CAPACITORS
	POWER SUPPLY A	55 Y	C268, C270, C271 (4700pF/250V) ACE1105
SEMI	ICONDUCTORS		C209 (100pF/2000V) ACG-032
Λ	IC201 ,IC207	AN8029	C254 (1500pF/2000V) ACG1007
	IC208	NJM7809FA	C260 (3300pF/2000V) ACG1008
	IC202 ,IC205	ON3171-Q	C253 ,C256, C277, C278
	IC203 ,IC206	PQ30RV11(A)	(4700pF/2000V) ACG1028
	IC204	PQ30RV31	,
			C203 (560µF/160V) ACH1146
	Q206 ,Q207 ,Q209 ,Q214 ,Q215		C201 ,C202 ,C262 (820µF/200V) ACH1148
	Q204 ,Q205 ,Q210 -Q213	2SC1740S	C267 (3300µF/16V) ACH1313
	Q202 ,Q203	2SC2705	C269 (6800pF/250V) ACE1108

Mark	No.	Description	Part No.	Mark	No.	Descript	ion	Part No.
	C234		CCCSL221J50		R281			RT10PZ390K
	C231	-C233 ,C235 ,C263 ,C264	CCCSL221K2H		VR201			VRTHS6VS102
					VR202			VRTHS6VS471
		-C219 ,C230 ,C246 ,C247	CEHAT100M50		Other R	esistors		RD1/4PU□□□J
	C250		CEHAT100M50	OTHE	ERS			
	C220 ,		CEHAT101M10		8010		SCREW	ABA1228
	C224,	C228	CEHAT101M25 CEHAT102M10		CN202		PLUG 2-P	AKM1127
	C200		CETIAI TOZIVITO		CN201		PLUG 3-P	AKM1128
	C275		CEHAT102M6R3		H201 -I	H206 ,H211		AKR1003
		C212 ,C225 ,C229	CEHAT1R0M50		201		SW HEAT SINK	ANH1505
	C248		CEHAT221M50		8011		SCREW	BBZ30P080FCU
	C207,		CEHAT222M35		8012		SCREW	BMZ30P100FZK
	C265,	C266	CEHAT332M10		CN208		PLUG 10-P	KM250MA10
		000-	0511150001110		CN206		PLUG 10-P	KM250MA10B
	C236 ,	C237	CEHAT332M16		CN210		PLUG 11-P	KM250MA11B
	C205 C249		CEHAT332M35 CEHAT470M50					
	C252		CFTXA104J50		CN203		PLUG 12-P	KM250MA12R
		-C245 ,C276	CKCYB103K50		CN204		PLUG 15-P	KM250MA15
					CN205 CN211		PLUG 4-P PLUG 5-P	KM250MA4 KM250MA5
	C257		CKCYB331K50		CN211		PLUG 3-P	KM250MA8
	C272		CKCYB471K50		011200		1 200 0 1	TAMESON TO
	C204		CKCYE103P2H	\triangle	FU205		FUSE 2.5A/125V	REK1079
	C261,	C274	CKDYB103K50		FU203		FUSE 4A/125V	REK1082
	C223		CQMA102J50	\triangle	FU204,	FU206	FUSE 5A/125V	REK1083
	C211		CQMA103J50	\triangle	FU201,	FU202	FUSE 6.3A/125V	REK1085
	C258		CQMA182J50					
	C221,	C226	CQMA333J50		AMP	ASSY		
	C255		CQMA392J50	SEMI	COND	UCTORS		
	C259		CQMA472J50		IC907			CA0007AD
					IC1171			CXA1315P
	C222,	C227	CQMA473J50			C908 ,IC90	9	M5220P
	C273		CQMA823J50		IC912			M5223AP
RESI	STOR				IC1205			MC14066BCP
	,	R244 ,R288	RD1/2MMF100J		IC905			NJM072BD-E
	R290 R209		RD1/2MMF181J RD1/2PM271J		IC1204			NJM2187L
	R231,	R243	RD1/4MUF681J			,IC1210		NJM4558LD
	R206,		RN1/4PC1603F		IC901	,		NJM7805FA
	, ,				IC902			NJM79M05FA
	R291		RN1/4PC2001F			_		
	R292		RN1/4PC2200F		IC903 ,I	C904		STK392-040
	R217		RN1/4PC2701F		IC1202			STK4412
	R218	D044	RN1/4PC3301F		IC910 IC911 ,I	C013		TC4052BP TC74HC4538AP
	R208 ,	R211	RN1/4PC3601F		IC1201	0010		UPC1853CT-01
	R213		RN1/4PC3602F					
	R215		RN1/4PC3900F		Q1131,	Q1140 ,Q1	Q1225, Q1219, Q1225	2SA933S
	R212,	R214	RN1/4PC3901F		Q902 ,C	Q904 -Q906	Q909, Q911,	2SA933S
	R216		RN1/4PC8200F		Q923			2SA933S
	R286		RS1MMF151J		Q1133	04405 04	100 01000 01000	2SB950A
	Dooo	Doso	DOMMITOO I		Q1132,	Q1135 -Q1	139 ,Q1206 ,Q1208	25017405
	R238,	R250	RS1MMF220J		Q1218 .	Q1220		2SC1740S
	R282	R228 ,R239 ,R240	RS1MMF221J RS1MMF333J				226 ,Q901 ,Q903	2SC1740S
	R202,		RS1MMF473J				,Q912 -Q916	2SC1740S
	R204	. 1200	RS2MMF223J		Q921 ,C	Q922 ,Q924		2SC1740S
	_,.				Q1171			2SC2235
	R263		RS2MMF472J		_	_		
	R247,		RS2MMFR22J		Q1202	Q1203		2SC2878
	R235 ,	R236	RS2MMFR56J		Q1134	D4400 D4	106 D4474 D4474	2SD1276A
	R266	Dood Dood Door	RS3LMF391J				136 ,D1171 -D1174 204 -D1209	1SS254 1SS254
	K2/9,	R280 ,R284 ,R285	RT10PZ120K				204 -D1209 218 ,D1226 -D1229	
					·-·-	,= .	- , ·=== = ·==0	

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	D1239	-D1242 ,D1244 ,D1246 -D1248	3 1SS254		C1009	,C1010 ,C1141 -C1144 ,C1171	CKCYF103Z50
		D924 ,D926 -D929	1SS254			,C1206 ,C1217 ,C1228 ,C1239	
	D934 -	D936 ,D938 -D941	1SS254		C1248	,C1250 ,C1251 ,C1253 ,C1278	CKCYF103Z50
	D1132	,D1219	BR3371XJ30A				
	D1184		HZS9C1L			,C1305 ,C1306 ,C903 ,C904	CKCYF103Z50
						C908 ,C911 ,C913 ,C924	CKCYF103Z50
		,D1211 ,D1223 ,D1224	MTZJ15			C930 ,C931 ,C933 -C939	CKCYF103Z50
		,D1234 ,D1245	MTZJ15			C949 -C951 ,C956 -C960	CKCYF103Z50
	D1203	D4470 D4470 D4404 D4400	MTZJ5.1 RD12ESB		C972 ,	C974 ,C975 ,C982 ,C992	CKCYF103Z50
		,D1178 ,D1179 ,D1181 ,D1182 :D920 ,D925 ,D930 -D933	RD12ESB		C1292		CQMA102J50
	טפוס .	-D920, D920, D933	KD12E3B		C1292		CQMA103J50
	D937		RD12ESB			-C1220	CQMA104J50
	D901 -	D912	S5688G		C947	0.220	CQMA152J50
	TH901		NTH4G42B104F01		C1290		CQMA222J50
CAPA	CITO	RS					
	C929 .	C983 ,C984 ,C988	CCCSL101J50			,C1294	CQMA223J50
		,C1134 ,C1139	CCCSL151J50			,C1241 ,C1245 ,C976 ,C977	CQMA472J50
	C1001	,C1003 ,C916 ,C918 ,C920	CCCSL220J50		C1296	0.000	CQMA681J50
	C987,	C999	CCCSL220J50			,C1295	CQMA682J50
	C1136		CEANP100M35		C948		CQMA821J50
	04000	04004	OF AN IDOCOMACO		C1207		CQMA823J50
		,C1224	CEANP220M16		C994		CQPA471J2A
		,C1236 ,C1276 ,C954 ,C955 ·C971 ,C973 ,C993	CEHAT100M50 CEHAT101M10		C978		CQPA472J2A
	C901 ,		CEHAT101M16		C942		CQPA561F2A
	-	,C1277	CEHAT101M25		C990,	C991	CQPA561J2A
	0.202	,0.2.7	0211/11/10/11/120	RESI	STORS	6	
	C1007	,C1008 ,C909 ,C912	CEHAT101M35		R1318		RD1/2MMF101J
	C921,	C922 ,C925 ,C926	CEHAT101M35		R1392		RD1/2PM103J
	C1255		CEHAT101M50		R1324	,R1328	RD1/2PM152J
		,C1280	CEHAT1R0M50			,R1329	RD1/4MUF4R7J
	C1211	,C1257 ,C1274 ,C1275	CEHAT220M50		R969 ,	R976 ,R985	RN1/4PC1001F
	C1138	,C1140 ,C1266 ,C1267	CEHAT221M35		R974		RN1/4PC1302F
		,C1286	CEHAT222M50		R970		RN1/4PC1303F
		,C1209 ,C989	CEHAT2R2M50		R971		RN1/4PC2002F
	C910,	C914 ,C923 ,C928	CEHAT331M35		R981,	R982	RN1/4PC2200F
	C902,	C907	CEHAT331M6R3		R980		RN1/4PC2201F
	04000	0.4000	0511470001405		D.1057		DN14/4D00004E
		,C1263	CEHAT332M35 CEHAT3R3M50		R1057 R973		RN1/4PC3001F RN1/4PC4702F
		,C1213 ,C1172 ,C1173 ,C1175 ,C1201			R983		RN1/4PC5101F
		,C1227 ,C1247 ,C1288	CEHAT470M25		R984		RN1/4PC6802F
		-C1301 ,C932	CEHAT470M25			-R1092 ,R905 ,R906	RS1MMF101J
		,				, ,	
	C1254	,C1256	CEHAT470M50		R921,	R922	RS1MMF101J
	C1205		CEHAT471M10			,R1244	RS1MMF220J
		,C1203	CEHAT4R7M50			,R1034 ,R902	RS1MMF470J
		,C1279	CEHATR10M50		R1132	D000 D000 D004	RS1MMF562J
	C1258	,C1259	CES41R0KJ		R907 ,	R908 ,R923 ,R924	RS1MMFR47J
	C941		CFTXA104J50		R1153		RS2MMF1R2J
		,C1308 ,C944	CFTXA105J50			,R1073 ,R1074 ,R1084 ,R1085	
		,C1244	CFTYA103J50			,R1145	RS2MMF2R2J
		,C1265	CFTYA104J50		R1151	,R1152	RS2MMFR47J
		,C1246	CFTYA224J50			,R1030 ,R1032	RS3LMF101J
	04451	04400 04405	OL/OVD4001/50		D.1005	D4000	D001 ME 1 D 2 :
		,C1132 ,C1135	CKCYB102K50			,R1399	RS3LMF1R0J
		,C1298	CKCYB122K50		R1088	P1021 P002	RS3LMF1R5J
	C995	-C1006 ,C979 -C981	CKCYB222K50 CKCYB331K50		K 1029	,R1031 ,R903	RS3LMF560J
		,C1226	CKCYB471K50		R901		RS3LMF6R8J
	0.220	,	5515111100			Resistors	RD1/4PU□□□J
	C1000	,C1002 ,C915 ,C917 ,C919	CKCYB681K50		•		-
	C998		CKCYB681K50				

Mark	No.	Descrip	tion	Part No.	Mark	No.	Description	<u> </u>	Part No.
OTHE	RS				RES	STORS	6		
	1202 ,90	03	SCREW	BBZ30P080FCU		R1403	R1404 R1407	,R1408 ,R1421	RS1/16S101J
	CN905,		15P PLUG	KM200IA15			-R1436 ,R1457		RS1/16S101J
	CN908	0.1000	PLUG 10-P	KM250MA10			-R1472 ,R1494		RS1/16S101J
	CN910		PLUG 10-P	KM250MA10B			·	-R1577 ,R1603	
							•	•	
	CN1205)	PLUG 4-P	KM250MA4		K1608	-K1614 ,K1618	-R1623 ,R1625	R51/165101J
	CN1206		PLUG 5-P	KM250MA5			,R1645 ,R1650		RS1/16S101J
	CN1201	,CN901	PLUG 6-P	KM250MA6			·	-R1685 ,R1688	
	CN902		PLUG 6-P	KM250MA6B				,R1736 ,R1743	RS1/16S101J
	CN903,		PLUG 6-P	KM250MA6R			,R1772		RS1/16S101J
	CN1202	2	PLUG 8-P	KM250MA8		R1401	,R1405 ,R1420	,R1422	RS1/16S102J
	CN904		PLUG 9-P	KM250MA9B		R1437	,R1438 ,R1482	,R1517 ,R1552	RS1/16S102J
	1203,90	01	SCREW	PMB30P160FZK		R1588	,R1629 ,R1734	,R1735	RS1/16S102J
	1131,90)2	SCREW	PMZ30P100FZK		R1746	,R1747		RS1/16S102J
						R1442	,R1464 ,R1509	,R1544 ,R1579	RS1/16S103J
	CON	VER.D	AC ASSY					,R1657 ,R1689	RS1/16S103J
SEMI	COND	JCTORS	}			R1692	R1697 R1700	,R1705 ,R1708	RS1/16S103J
	R5094			RS1/16S0R0J			,R1716 ,R1721	, ,	RS1/16S103J
	IC1405,	IC1406		MC14052BF				,R1476 -R1481	
	IC1404			MC14066BF			,R1490 ,R1492	*	RS1/16S104J
	IC1401.	IC1402		PA0053B			-R1516 ,R1524	·	RS1/16S104J
	,	IC1408-IC	1412	PM0011AS		KISIS	-K1510 ,K1524	,K1525	K31/1031043
						R1527	,R1528 ,R1548	-R1551	RS1/16S104J
			405 ,Q1407	2SA1162		R1559	,R1560 ,R1562	,R1563	RS1/16S104J
	Q1402,	Q1404 ,Q1	406 ,Q1408 -Q1410	2SC2712		R1583	-R1586 ,R1591	-R1600	RS1/16S104J
	D1401,	D1402 ,D1	404 -D1406 ,D1408	1SS226		R1604	-R1607 ,R1635	-R1640	RS1/16S104J
	D1410 -	D1415,D1	418 -D1421	1SS226			•	,R1687 ,R1756	RS1/16S104J
CAPA	CITOR	S						, ,	
			463 -C1466	CCSQCH101J50		R1641	,R1751		RS1/16S113J
	C1481 -	C1493 ,C1	495 ,C1496 ,C1499	CCSQCH101J50		R1633	,R1763		RS1/16S114J
	C1501,	C1502 ,C1	505 ,C1507 ,C1508	CCSQCH101J50		R1755	,R1761 ,R1764	,R1765	RS1/16S124J
	C1536	•	, ,	CCSQCH101J50		R1672	R1674, R1676,	,R1771	RS1/16S125J
	C1456			CCSQCH821J50		R1729	,R1737 ,R1739		RS1/16S153J
	C1455			CCSRCH331J50		R1556			RS1/16S154J
		C1421 C1	426 ,C1431 ,C1434				,R1519 ,R1555		RS1/16S163J
	C1437	01421,01	720,01731,01737	CEV100M16				,R1553 ,R1587	
	C1406			CEV100M16		R1628	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RS1/16S181J
		C1412 C1	413 ,C1420 ,C1422			R1750			RS1/16S183J
				OLV TO TWO TO					
			432 ,C1433	CEV101M6R3			,R1762 ,R1767		RS1/16S184J
	C1435,	C1436 ,C1	439 ,C1441 ,C1443	CEV101M6R3			,R1590 ,R1634		RS1/16S204J
	C1446,	C1448 ,C1	461 ,C1462 ,C1467	CEV101M6R3			,R1465 ,R1466	·	RS1/16S221J
	C1469,	C1474 ,C1	476	CEV101M6R3				,R1545 ,R1546	RS1/16S221J
	C1401,	C1415		CEV1R0M50		R1578	,R1580 ,R1581	,R1601	RS1/16S221J
	C1416			CEV220M16		R1616	,R1617 ,R1643	,R1658 ,R1659	RS1/16S221J
	C1404,	C1418		CEV330M10		R1418	,R1424 -R1431	,R1512 ,R1547	RS1/16S222J
	C1417			CEV470M16		R1582	R1602 ,R1644		RS1/16S222J
	C1453			CEVR33M50				,R1444 ,R1554	
	C1402			CEVR47M50			R1738 ,R1768	, ,	RS1/16S223J
	C14F4			CEUSO100 IE0		R1/17/	R1744 ,R1745,	R1766	RS1/16S274J
	C1454			CFHSQ102J50				,131700	
	C1405	04444		CFTYA184J50			,R1754 ,R1773	D1600 D4707	RS1/16S304J
	C1407,		440 04400 04:	CFTYA224J50				,R1699 ,R1707	
	-		419 ,C1423 ,C1425				,R1723		RS1/16S333J
	C1427,	C1438 ,C1	440 ,C1442	CKSQYF104Z50		K1520	,R1757		RS1/16S334J
	C1444,	C1445 ,C1	447 ,C1449 -C1452	CKSQYF104Z50			,R1526 ,R1561		RS1/16S363J
	C1468,	C1470 -C1	473 ,C1475	CKSQYF104Z50		R1759			RS1/16S364J
	C1477 -	C1480 ,C1	511 -C1525	CKSQYF104Z50		R1486	,R1678		RS1/16S394J
		,				R1485			RS1/16S433J
						R1409	-R1416		RS1/16S470J

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
		R1720, R1704, R1712, R1720,			R5007		RS1/16S273J
	R1728 R1441		RS1/16S471J RS1/16S473J		R5010 R5008		RS1/16S334J RS1/16S562J
	R1760		RS1/16S474J		R5006		RS1/2S821J
	R1423		RS1/16S512J		VR5004		VRTS6VS473
	111120		1101/1000120		***************************************		71110070110
	R1446	R1630 -R1632 ,R1693 -R1695	5 RS1/16S562J		Other R	esistors	RS1/10S□□□J
	R1701 -		RS1/16S562J	OTHE	ERS		
		R1523 ,R1558 ,R1770	RS1/16S563J		5001	DPO HOLDER	AMR2294
	R1741 R1402	D1456	RS1/16S564J RS1/16S622J	П			
	K1402	,K 1450	K31/103022J		FRO	NT INPUT ASSY	
	R1473		RS1/16S623J	SEMI	COND	UCTORS	
	R1749		RS1/16S682J		Q5041	,Q5042	2SC2712
	R1445	R1673 ,R1675	RS1/16S684J		D5041	D5042	RD15MB
G	_			CAPA	ACITOF	RS	
U	CONI	NECTOR ASSY			C5043	C5044	CEV1R0M50
OTHE	ERS				C5041		CEV470M16
	J1801 ,	J1802 JUMPER WIRE	D15A15-100-2651		C5042		CKSQYF103Z50
	CN1803	3,CN1804 15P SOCKET	KP200IA15L	RESI	STORS	3	
					R5043		RD1/4LMF101J
J	FRO	NT CONTROL ASS	SY		R5052		RS1/16S221J
SWIT	CHES	AND RELAYS			R5054	R5049 -R5051	RS1/16S222J RS1/16S473J
• • • • • • • • • • • • • • • • • • • •	S5001 -	_	ASG1034		R5046		RS1/16S474J
CAPA	CITOR		7.00.00		113047	113040	1101/1004/40
	C5003		CEV101M6R3		R5041	R5044 ,R5045	RS1/16S750J
	C5004	,C5005	CKSQYF103Z50	OTH	ERS		
RESI	STORS	6			CN5042	PINJACK(3P) WITH SIN	AKB1261
	R5014		RS1/16S101J		CN5047	PLUG 12-P	KM250MA13
	R5012	,R5019	RS1/16S102J	M	_		
	R5015		RS1/16S181J	IIVI	SR A	ASSY	
	R5018		RS1/16S222J	CAPA	CITOF	RS	
	R5016		RS1/16S301J		C5072		CCSQSL121J50
	R5013		RS1/16S470J		C5071		CEV101M6R3
	R5017		RS1/16S561J	RESI	STORS	5	
	R5020		RS1/16S622J		R5071		RS1/16S102J
OTHE	ERS			OTHE	ERS		
	J5001	7P HOUSING WIRE	ADX2500		CN507	I PLUG 4-P	KM250MA4B
	CN5001	1 PLUG 8-P	KM250MA8		X5071		GP1U28X
V					POW	ER SW ASSY	
	LED	DPO ASSY		SWIT	CHES	AND RELAYS	
SEMI	COND	UCTORS			S5081		ASG1084
	Q5001	,Q5005	2SA1162	OTHE	ERS		
	Q5002	-Q5004	2SC2712		CN5087	I PLUG 3-P	KM250MA3
	D5002		1SS181				
	D5008		AEL1176		SR E	BNC ASSY	
	D5007		AEL1177	SEMI	COND	UCTORS	
	D5006		NSPWF50S-8038		Q5023		2SA1162
	PC5001	I	P1241-09			,Q5022 ,Q5024	2SC2712
CAPA	CITOF	RS			D5021	D5022 ,D5024	1SS352
	C5001		CEV100M16		D5023		RD6.8MB
	C5002		CEV330M25	CAPA	CITOF	RS	
RESI	STORS	3			C5024		CEV470M6R3
	R5001		RD1/2LMF820J		C5021	C5023	CKSQYF103Z50
	R5011	_	RS1/16S102J	DEO:	C5022		CKSQYF472Z50
	R5035	,R5036	RS1/16S103J	KESI	STORS		D04/400:5::
	R5005	DE003	RS1/16S152J		R5027		RS1/16S101J
	R5002	,r::0003	RS1/16S222J		R5021 R5023		RS1/16S102J RS1/16S103J
	R5061	,R5062 ,R5064 ,R5065	RS1/16S223J			R5026 ,R5030 ,R5032	RS1/16S103J
		,			R5029		RS1/16S224J

Mark	No.	Descr	iption	<u>_</u>	Part No.	Mark	No.	Description	Part No.
	R5022				RS1/16S472J		C6229	,C6252 ,C6259	CEV4R7M35
OTHE					1101/1004/20			,C6025 ,C6030 ,C6035	CEVNPR10M50
OIIIL	J5025		3P HOUSING WII	RF	ADX2494			,C6043 ,C6048	CEVR47M50
	J5024		3P HOUSING WII		ADX2494				
	CN5021		JACK		AKN-209			,C6061	CKSQYB332K50
	5022		CONNECTOR		AKX1002			,C6021 -C6023 ,C6038 -C604	
	CN5023		PLUG 4-P		KM250MA4B			,C6064 ,C6071 -C6073 ,C6075	
								,C6081 ,C6082 ,C6089 ,C6093	
1/	AV I/	O AS	SSY				C6207	,C6211 ,C6218 ,C6223 ,C6224	F CKSQYF103250
SEMI	CONDU	ICTOF	RS				C6231	-C6234 ,C6236 ,C6238 -C624	1 CKSQYF103750
·	IC6403				CXA1315M			,C6245 -C6250 ,C6254 -C6250	
	IC6001				CXA2069Q			,C6261 ,C6401 -C6404 ,C6413	
	IC6401,I	C6402			MC14066BF	RESI	STORS	S	
	IC6003				NJM2246M		R6076		RD1/2LMF1R0J
	IC6201-I	C6203			TC74HC4053AF		R6069		RD1/4LMF270J
	00004	20040	00044 00045		0044400			,R6395 ,R6468 ,R6475 ,R6476	
			Q6014 ,Q6015 Q6022 ,Q6024 ,C)602E	2SA1162		R6520		RS1/16S0R0J
			Q6042 ,Q6201 Q6040 ,Q6201	20023	2SA1162		R6112	,R6114 ,R6129 ,R6148 ,R6151	RS1/16S101J
			Q6206 ,Q6208 ,Q	6210			D6165	,R6173 ,R6176 ,R6209 ,R6210	D D C 1/16 C 1 D 1
			Q6223 ,Q6227	(0210	2SA1162			,R6213 ,R6215 ,R6216	RS1/16S101J
			•					,R6236 ,R6238 ,R6239	RS1/16S101J
	Q6229 ,0	Q6230 ,	Q6404 ,Q6410 ,Q	6412	2SA1162			,R6242 ,R6252 -R6254	RS1/16S101J
	Q6414 -0				2SA1162		R6267	-R6269 ,R6295 ,R6298 ,R630	I RS1/16S101J
			Q6005 -Q6011 ,C						
			Q6023 ,Q6027 -C					,R6322 ,R6324 ,R6326 ,R6328	
	Q6037,C	J0U41 -	Q6047 ,Q6233 -C	10235	2502/12			,R6338 ,R6345 ,R6347 ,R6349	
	O6238 -0	O6261	Q6403 ,Q6405 -C	16409	2SC2712			,R6359 ,R6361 ,R6370	RS1/16S101J
	Q6411 ,C		Q0100,Q0100 Q	k0-100	2SC2712			-R6452 ,R6455 ,R6457 -R6459 ,R6143 ,R6155 ,R6172	RS1/16S101J RS1/16S102J
			Q6207 ,Q6209		2SC4213		110040	,10143 ,10133 ,10172	131/1031023
	Q6211 ,C	Q6212 ,	Q6228 ,Q6231 ,Q	6232	2SC4213		R6177	,R6178 ,R6188 ,R6197 ,R6315	RS1/16S102J
	D6405 ,D	D6411 -I	D6413		1SS184			,R6381 ,R6466	RS1/16S102J
							R6005	,R6044 ,R6141 ,R6145 ,R6186	RS1/16S103J
			D6024 ,D6025		1SS226			,R6195 ,R6199 ,R6374 -R6378	
		,	D6035 -D6037 D6401 -D6404 ,D	6406	1SS226		R6414	,R6454 ,R6456	RS1/16S103J
	D6201 -L		U, 40401 -10404 ل	0400	1SS226		Denn4	,R6006 ,R6036 ,R6043 ,R6045	DC1/16C1041
	- ,		D6034 ,D6039 ,D6	6040				,R6152 ,R6184 ,R6193	RS1/16S104J
	•	•	,					-R6266 ,R6309 ,R6321 ,R6323	
	D6210 -E	06215 ,	D6407 ,D6408 ,D	6410	1SS352			,R6327 ,R6335 ,R6337 ,R6344	
	D6409				RD3.6MB		R6346	,R6348 ,R6350 ,R6358 ,R6360	RS1/16S104J
CAPA	CITOR	S							
	C6006 ,C	, 26065	C6068 ,C6086 ,C	6090				,R6380 ,R6421 ,R6422 ,R6470	
	C6228 ,C	-			CEV100M16		R6274		RS1/16S122J
		-	C6411 ,C6412		CEV101M6R3		R6260	,R6223 -R6233 ,R6256 ,R6258	RS1/16S123J
	C6058 ,C		C6009 -C6014		CEV102M6R3 CEV1R0M50			,R6297 ,R6300	RS1/16S152J
	J0002 ,C	, 60000	-00014		OE V ITTOMOU		020-7	,=0. ,	
	C6026 .C	. 26027	C6031 ,C6032		CEV1R0M50		R6055	,R6057 ,R6110 ,R6111	RS1/16S153J
			C6042 ,C6044 -C	6046	CEV1R0M50		R6127	,R6128 ,R6217 ,R6219 ,R6222	RS1/16S153J
		,	C6406 ,C6409 ,C					,R6245 ,R6247 ,R6303 ,R6305	
		,	C6024 ,C6028 ,C				R6307		RS1/16S153J
	C6033 ,C	, 26034	C6067 ,C6083 ,C	6088	CEV220M16		R6007	,R6008 ,R6046 ,R6047	RS1/16S181J
	C6000 C	26004	Ce204 Ce20e		CEV/220M46		D6/123	,R6424	RS1/16S181J
		,	C6201 -C6206 C6212 -C6217		CEV220M16 CEV220M16			,R6313 ,R6371	RS1/16S181J
	C6225 -C				CEV220M16			,R6058 ,R6166 ,R6168 ,R6310	
		-	C6018 ,C6020 ,C	6057				,R6434	RS1/16S183J
			C6077 ,C6079 ,C				R6011	,R6013 ,R6020 -R6026	RS1/16S221J
	-								
		-	C6235 ,C6237 ,C					-R6033 ,R6037 ,R6052 ,R6053	
		, 26257	C6405 ,C6407 ,C6	6408				,R6075 ,R6087 ,R6088 ,R6090	
	C6414	SENEE !	C6069 ,C6087 ,C	6004	CEV470M16			,R6103 ,R6117 ,R6119 ,R6140 ,R6167 ,R6169 -R6171 ,R6174	
	C0007 ,C	י, מטטטכ	JO, 18000, 60007, CI	OUS I	CENAL/MOS		110143	,	. 101,1002210

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	R6185 ,	R6194 ,R6383 ,R6415	RS1/16S221J	Α	TUNI	ER u-COM ASSY	
	R6426	R6427 ,R6460 ,R6461	RS1/16S221J				
		R6010 ,R6041 ,R6050 ,R6051		SEIVII		UCTORS	
		R6077 -R6082 ,R6137 ,R6138			IC2204		24LC32A
		R6156 ,R6175 ,R6211 ,R6214			IC2701		CXA1734S
		R6220 ,R6222 ,R6234 ,R6237			IC2208,	,IC2702	MC14066BF
	K0210,	R0220 ,R0222 ,R0234 ,R0237	K31/1032223		IC2206		PD0264AM
	D6040	D6244 D6246 D6249 D6204	DC1/16C2221		IC2201		PD5462B9
		R6244 ,R6246 ,R6248 ,R6304					
		R6308 ,R6417 ,R6419	RS1/16S222J		IC2202		PD5463B9
		R6121 -R6124 ,R6146 ,R6147			IC2203		PD5497B9
		R6164 ,R6191 ,R6192 ,R6200			IC2209,	,IC2210,IC2703,IC2704	PQ20VZ1U
	•	R6257 ,R6259 ,R6314 ,R6372				,IC2802 ,IC2207	PQ20VZ1U PST9146N
		R6385 ,R6407 -R6410	RS1/16S223J		.02200,	,	. 0.0
		R6431 ,R6433 ,R6435 ,R6436			IC2211,	IC2212	TC74HC4053AF
	R6059,	R6068 ,R6273 ,R6343 ,R6366	RS1/16S332J			,Q2204 ,Q2206 ,Q2208 ,Q22	
	R6420,	R6425	RS1/16S332J			,Q2204 ,Q2200 ,Q2200 ,Q22 ,Q2218 ,Q2701 ,Q2706 ,Q27	
	R6285		RS1/16S393J			,Q2715 ,Q2804 ,Q2805	2SA1162 2SA1162
	R6275 -	R6280 ,R6329 -R6334	RS1/16S470J		Q2201	,Q2203 ,Q2205 ,Q2207 ,Q220	J9 25C2712
	R6352 -		RS1/16S470J		00044	00040 00047 00040 000	04 0000740
		R6341 ,R6362 -R6364	RS1/16S471J			,Q2213 -Q2217 ,Q2219 -Q222	
		R6120 ,R6144 ,R6189 ,R6198				-Q2229 ,Q2702 -Q2705	2SC2712
		R6382 ,R6462 -R6464 ,R6472				,Q2708 ,Q2711 ,Q2712 ,Q271	
	110200 ,	110002 ,110402 110404 ,110472	1101/1004/20			,Q2717 ,Q2801 -Q2803 ,Q280	
	R6474		RS1/16S472J		Q2808 -	-Q2810	2SC2712
		R6413 ,R6432					
		·	RS1/16S473J		Q2222		2SJ460
		R6002 ,R6062 ,R6063	RS1/16S474J		D2313 -	-D2315	1SS184
	-	R6071 ,R6135 ,R6136	RS1/16S474J		D2205,	,D2207 ,D2210 -D2260	1SS226
	R6284		RS1/16S513J		D2262 -	-D2264 ,D2267 -D2297	1SS226
	_				D2299,	D2300 ,D2306 ,D2310 -D231,	2 1SS226
		R6035 ,R6125 ,R6126	RS1/16S560J		•	, ,	
		R6142 ,R6154 ,R6187 ,R6196	RS1/16S562J		D2321 .	D2325 -D2343 ,D2703 ,D270	4 1SS226
	R6311,	R6369 ,R6379 ,R6465	RS1/16S562J			,D2801 ,D2802 ,D2805	1SS226
	R6412		RS1/16S563J			-D2204 ,D2303 ,D2304	1SS352
	R6012,	R6014 -R6017 ,R6019	RS1/16S622J			-D2309 ,D2318 ,D2319	1SS352
						,D2265 ,D2266 ,D2323	RD15MB
	R6027,	R6028 ,R6083 -R6086	RS1/16S622J		DLLO1,	,52200 ,52200 ,52020	TE TOME
	R6133,	R6134	RS1/16S622J		D2705 ,	D2706	RD15MB
	R6270 -	R6272 ,R6342 ,R6365	RS1/16S681J			,D2208 ,D2209 ,D2298	RD6.8MB
	R6038,	R6153	RS1/16S682J			,D2302 ,D2305 ,D2316 ,D231	
	R6018 ,	R6060 ,R6061 ,R6064 -R6066	RS1/16S750J	0011	D2709,	,D2804	UDZ33B
	R6072 -	R6074 ,R6182 ,R6201 -R6206	RS1/16S750J	COIL		FILTERS	
	R6249 -		RS1/16S750J		L2201,	L2202	ATC1037
		R6299 ,R6302	RS1/16S820J		L2701 -	L2705 ,L2801 -L2804	LCTA2R2J3225
		R6049 ,R6181 ,R6183 ,R6416			L2203		LCTA8R2J3225
	R6418	N0049 ,N0101 ,N0103 ,N0410	RS1/16S821J		F2706,	F2707	VTF1097
	10410		K31/1030213	CAPA	ACITOR	RS	
	Other D	aciatara	DC1/10CDDD I	OAI 7			ACU1120
	Other R	esistors	RS1/10S□□□J		C2710	C= 3.3,V(DC)= 50,A	ACH1128
THE	RS				C2704	C= 10,V(DC)= 50,A	ACH1129
	CN6006	DINI IA CIZ/CD) M/ITI I CINI	A I/D 4 2 7 4		C2732,	,02822	CCSQCH101J50
	CINOUUC	PINJACK(6P) WITH SIN	AKB1271				00000111001=
	CN6007	` ,	AKB1271 AKB1272		C2238		
		PINJACK(6P) WITH SIN				,C2233 ,C2282 ,C2283	
	CN6007 CN6010	PINJACK(6P) WITH SIN PINJACK(6P)	AKB1272 AKB1273		C2223 ,	,C2233 ,C2282 ,C2283	CCSQCH150J50
	CN6007	PINJACK(6P) WITH SIN PINJACK(6P) PINJACK(6P)	AKB1272			,C2233 ,C2282 ,C2283	CCSQCH150J50 CCSQCH390J50
	CN6007 CN6010 CN6202 CN6404	PINJACK(6P) WITH SIN PINJACK(6P) PINJACK(6P) PLUG 32-P	AKB1272 AKB1273 AKB1274 AKM1154		C2223 , C2237 C2727	,C2233 ,C2282 ,C2283 ,C2227 ,C2250 ,C2251	CCSQCH150J50 CCSQCH390J50 CCSQCH470J50
	CN6007 CN6010 CN6202 CN6404 CN6201	PINJACK(6P) WITH SIN PINJACK(6P) PINJACK(6P) PLUG 32-P PLUG 44-P	AKB1272 AKB1273 AKB1274 AKM1154		C2223 , C2237 C2727 C2219 ,		CCSQCH150J50 CCSQCH390J50 CCSQCH470J50 CCSQSL221J50
	CN6007 CN6010 CN6202 CN6404 CN6201 CN6002	PINJACK(6P) WITH SIN PINJACK(6P) PINJACK(6P) PLUG 32-P PLUG 44-P L-PLUG(10P)	AKB1272 AKB1273 AKB1274 AKM1154 AKM1155 KM250MA10L		C2223 , C2237 C2727 C2219 , C2811	,C2227 ,C2250 ,C2251	CCSQCH150J50 CCSQCH390J50 CCSQCH470J50 CCSQSL221J50 CCSQSL470J50
	CN6007 CN6010 CN6202 CN6404 CN6201 CN6002 CN6204	PINJACK(6P) WITH SIN PINJACK(6P) PINJACK(6P) PLUG 32-P PLUG 44-P L-PLUG(10P) L-PLUG(11P)	AKB1272 AKB1273 AKB1274 AKM1154 AKM1155 KM250MA10L KM250MA11L		C2223 , C2237 C2727 C2219 , C2811		CCSQCH150J50 CCSQCH390J50 CCSQCH470J50 CCSQSL221J50 CCSQSL470J50
	CN6007 CN6010 CN6202 CN6404 CN6201 CN6002 CN6204 CN6001	PINJACK(6P) WITH SIN PINJACK(6P) PINJACK(6P) PLUG 32-P PLUG 44-P L-PLUG(10P) L-PLUG(11P) PLUG 3-P	AKB1272 AKB1273 AKB1274 AKM1154 AKM1155 KM250MA10L KM250MA11L KM250MA3L		C2223, C2237 C2727 C2219, C2811 C2201 -	,C2227 ,C2250 ,C2251 -C2204 ,C2215 ,C2702 ,C270	CCSQCH150J50 CCSQCH470J50 CCSQCH470J50 CCSQSL221J50 CCSQSL470J50 3 CEAT100M50
	CN6007 CN6010 CN6202 CN6404 CN6201 CN6002 CN6204	PINJACK(6P) WITH SIN PINJACK(6P) PINJACK(6P) PLUG 32-P PLUG 44-P L-PLUG(10P) L-PLUG(11P) PLUG 3-P	AKB1272 AKB1273 AKB1274 AKM1154 AKM1155 KM250MA10L KM250MA11L		C2223, C2237 C2727 C2219, C2811 C2201 -	,C2227 ,C2250 ,C2251 -C2204 ,C2215 ,C2702 ,C270 ,C2729 ,C2737 ,C2738	CEAT100M50
	CN6007 CN6010 CN6202 CN6404 CN6201 CN6002 CN6204 CN6001 CN6004	PINJACK(6P) WITH SIN PINJACK(6P) PINJACK(6P) PLUG 32-P PLUG 44-P L-PLUG(10P) L-PLUG(11P) PLUG 3-P PLUG 4-P	AKB1272 AKB1273 AKB1274 AKM1154 AKM1155 KM250MA10L KM250MA11L KM250MA3L		C2223, C2237 C2727 C2219, C2811 C2201 -	,C2227 ,C2250 ,C2251 -C2204 ,C2215 ,C2702 ,C270 ,C2729 ,C2737 ,C2738 ,C2741 ,C2744 ,C2746 ,C274	CCSQCH150J50 CCSQCH470J50 CCSQSL221J50 CCSQSL470J50 CCSQSL470J50 CEAT100M50 CEAT100M50 7 CEAT100M50
	CN6007 CN6010 CN6202 CN6404 CN6201 CN6002 CN6204 CN6001	PINJACK(6P) WITH SIN PINJACK(6P) PINJACK(6P) PLUG 32-P PLUG 44-P L-PLUG(10P) L-PLUG(11P) PLUG 3-P PLUG 4-P PLUG 4-P PLUG 6-P	AKB1272 AKB1273 AKB1274 AKM1154 AKM1155 KM250MA10L KM250MA11L KM250MA3L		C2223, C2237 C2727 C2219, C2811 C2201 - C2725, C2740, C2802 -	,C2227 ,C2250 ,C2251 -C2204 ,C2215 ,C2702 ,C270 ,C2729 ,C2737 ,C2738	CCSQCH150J50 CCSQCH390J50 CCSQCH470J50 CCSQSL221J50 CCSQSL470J50 3 CEAT100M50 CEAT100M50 7 CEAT100M50

Mark	No.	Description		Part No.	Mark	No.	Description		Part No.
	C2241	,C2252 ,C2254 ,C	C2260 ,C2265	CEAT101M10		R2744	,R2745 ,R2750 -R2	752 ,R2757	RS1/16S101J
	C2212			CEAT101M16		R2759	,R2765 ,R2767 ,R2	819 ,R2829	RS1/16S101J
	C2717			CEAT101M25			,R2833 ,R2843	,	RS1/16S101J
		,C2226 ,C2264 ,C	C2705 .C2709				,R2234 ,R2237 ,R2	254 .R2259	
	C2735		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CEAT331M16			,R2282 ,R2301 ,R2		
	C2208	,02011		CEAT3R3M50			,R2360 ,R2409 ,R2		
								•	
		,C2262		CEAT470M10			,R2736 ,R2737 ,R2 .R2841	816	RS1/16S102J
	C2258	C0704 C0702 C	20004 (2000	CEAT470M16			, -	220 02240	RS1/16S102J
		,C2721 ,C2723 ,C	,02000				,R2208 ,R2225 ,R2		
	C2810			CEAT471M16			,R2280 ,R2281 ,R2		
	C2211			CEAT471M25		R2298	,R2307 ,R2314 ,R2	326 ,R2328	R51/165103J
		,C2701 ,C2706 ,C	C2707	CEAT4R7M50			,R2353 ,R2355 ,R2		
		-C2716 ,C2718		CEAT4R7M50			-R2408 ,R2418 ,R2		
		,C2230 ,C2249		CEATR10M50			-R2457 ,R2463 ,R2		
	C2236			CEATR47M50			,R2486 ,R2487 ,R2	,	
	C2214	,C2256 ,C2257		CFTXA105J50		R2498	,R2501 -R2503 ,R2	505 -R2509	RS1/16S103J
	C2708			CFTXA224J50			,R2529 ,R2530 ,R2		
	C2221			CKSQYB561K50			,R2741 ,R2742 ,R2	749 ,R2768	
			C2728 ,C2748	CKSQYF102Z50			,R2239		RS1/16S104J
		,C2812		CKSQYF102Z50			,R2262 ,R2333		RS1/16S105J
	C2205	,C2209 ,C2213 ,C	C2227, C2225	CKSQYF103Z50		R2707	,R2807		RS1/16S123J
	C2231	,C2235 ,C2240 ,C	C2242 ,C2243	CKSQYF103Z50		R2724	,R2812		RS1/16S152J
				CKSQYF103Z50		R2233	,R2255 ,R2260 ,R2	350 -R2352	RS1/16S153J
				CKSQYF103Z50			,R2372 ,R2415 ,R2		
				CKSQYF103Z50		R2811		•	RS1/16S153J
				CKSQYF103Z50		R2244			RS1/16S155J
						D0400	D0404 D0507 D0	500 D0544	
		,C2816 ,C2817 ,C	2819	CKSQYF103Z50			,R2431 ,R2537 ,R2	539 ,R2541	
	C2210	00000		CKSQYF473Z50			,R2808 ,R2844	477 DO700	RS1/16S182J
	C2220	,02228		CQMA102J50			,R2436 ,R2440 ,R2		
	C2713			CQMA272J50			,R2739 ,R2746 ,R2		
	C2712			CQMA473J50		R2806	,R2814 ,R2827 ,R2	842	RS1/16S183J
RESI	STORS					R2718			DC1/16C2041
	R2763	,R2830		RD1/2MMF271J			D0045 D0000 D0	04E D00E0	RS1/16S204J
	R2792			RD1/4MUF332J			-R2215 ,R2220 ,R2		
		,R2552 ,R2764 ,F	R2828, R2773	RN1/16SE1001D			,R2287 ,R2367 ,R2		
	R2837			RN1/16SE1001D			,R2510 ,R2704 ,R2 ,R2721 ,R2723 ,R2		
	R2550	,R2553 ,R2772 ,R	R2836	RN1/16SE3001D		K2120	,R2121 ,R2123 ,R2	730 ,R2733	K31/103221J
	R2771	.R2834		RN1/16SE6201D		R2747	,R2779 -R2781 ,R2	801 ,R2802	RS1/16S221J
		,R2417 ,R2520 ,F	R2521	RS1/16S0R0J		R2809	,R2817 ,R2821 ,R2	822 ,R2835	RS1/16S221J
		,R2532 ,R2534 ,R				R2839			RS1/16S221J
		R2228 ,R2258 ,F	•			R2242	,R2420 ,R2421 ,R2	432 ,R2433	RS1/16S222J
		-R2286 ,R2289 -F		RS1/16S101J		R2567	,R2717		RS1/16S222J
	R2204	-R2297 ,R2299 ,F	2300	RS1/16S101J		R2201	-R2203 ,R2205 -R2	207	RS1/16S223J
		-R2306 ,R2308 -F				R2209	-R2211 ,R2216 -R2	218	RS1/16S223J
		R2317 -R2325 ,F,	,	RS1/16S101J		R2249	-R2251 ,R2438 ,R2	475	RS1/16S223J
		,R2332 ,R2335 ,R				R2516	-R2519 ,R2729 ,R2	775 -R2778	RS1/16S223J
		R2349 ,R2356 -F,				R2815			RS1/16S223J
		•	,			Dagg			DC4/46C224 I
		,R2373 ,R2374 ,F		RS1/16S101J		R2227	Doore Doore Do	262	RS1/16S224J
		,R2380 ,R2411 ,R		RS1/16S101J			,R2316 ,R2336 ,R2		RS1/16S272J
		-R2429 ,R2434 ,F		RS1/16S101J			,R2365 ,R2546 ,R2	341 ,KZ/UZ	
		,R2446 ,R2449 -F	•				,R2818 ,R2823		RS1/16S272J
	R2458	-R2462 ,R2465 -F	R2473 ,R2485	RS1/16S101J		K2248	,R2442		RS1/16S273J
	R2489	,R2490 ,R2493 ,R	R2495 -R2497	RS1/16S101J		R2733	Basis ==: :		RS1/16S302J
	R2499	,R2500 ,R2513 ,F	R2514	RS1/16S101J			,R2219 ,R2241 ,R2		
	R2522	-R2528 ,R2535 ,F	R2542 -R2545	RS1/16S101J			,R2538 ,R2540 ,R2	732 ,R2743	
	R2562	,R2564 ,R2566 ,R	R2568 ,R2701	RS1/16S101J		K2748	,R2754 ,R2782		RS1/16S332J

R2247 R2419 R2441 R51/16S393J C0288 C0289 C0287 C0269 C0302 25C17408	Mark	No.	Desci	ription	Part No.	Mark	No.	Description		Part No.
R. 2223, R.2716		R2247	,R2419 ,	R2441	RS1/16S333J					
R2439 R2740 R2765 R511/68383J R2561 R2561 R2561 R2565 R511/68383J R2562 C0529 R5271 R2712 R2719 R2761 R2561 R2565 R511/68371J R2761 R2561 R2561 R2565 R511/68371J R2761 R2761 R2561 R2565 R511/68371J R2761 R2761 R2565 R511/68371J R2761 R2761 R2561 R2562		R2223	R2716		RS1/16S392J					
R2714 R2256 R2261 R2561 R2561 R2562 R2568 R2568 R3268 R31/16S471J G5601 2SD880 R31/16S471J G5601 2SD880 R31/16S471J G5601 2SD880 R31/16S472J G5601 D5283 D5293 D5297 S58/117 R2222 R2231 R2232, R2238, R2354 R31/16S472J D5329 D5350 D5297 D5312 D5319 S5254 R31/16S472J D5329 D5350 D5297 D5312 D5319 S5254 R31/16S472J D5329 D5350 D5201 D5018 S5254 R31/16S472J D5329 D5350 D501 D5018 D5029 D5030 R320 D5320				.R2755						
R.2266 R.2261 R.2266 R.2668 R.2566 R.5668 R.5667 R.571 R.2717 R.7172 R.72712 R.72718 R			,						,	
R2222 R2231 R2232 R2238 R2394 RS1/165472J D5251 -D5283 D5293 -D5297 155254 R2378 R2378 R23410 R23413 R2414 R53/165472J D5307 -D5312 D5314 D5319 155254 R2342 R2342 R2428 R2428 R2428 R2428 R2458 R2424 R2478 R2774 R51/165472J D5307 -D5312 D5614 D5619 155254 R2338 R2444 R2478 R2774 R51/165472J D5607 -D5668 D5668 155254 R2329 R2444 R2478 R2774 R51/165472J D5607 -D5668 D5689 D5689 155254 R2329 R2329 R51/165561J D5629 -D5306 D5630 -D5638 D5689 155254 R2329 R2371 R2375 R2377 R2726 R51/165561J D5298 -D5306 D5530 -D5528 D5669 MTZ.111 R2370 R2371 R2375 R2377 R2726 R51/165562J R51/165562J R2471 R2470 R51/165562J R2471 R2470 R51/165562J R2472 R2482 R2722 R2420 R51/165562J R2482 R2722 R2420 R51/165683J D6620 MTZ.115 R2264 R2452 R2722 R2420 R51/165683J D6620 MTZ.115 R2264 R2452 R2722 R2420 R51/165683J L5601 R2470 R51/165623 R244 R242 R2424 R51/165623J L5601 R2470 R51/165623 R244 R51/165623J L5601 R3470 R51/165623 R244 R51/165623 R244 R51/165623J L5601 R3470 R51/165623 R244 R51/165623 L5251 L52		R2256	R2261 ,	R2561 ,R2563 ,R2565	RS1/16S471J					
R2222 R2231 R2232 R2238 R2294 RS1/165472J D5251 -D5283 .D5293 -D5297 155254 R2378 R2378 R2410 R2413 R2414 R53/165472J D5307 -D5312 .D5314 .D5319 155254 R2412 R2422 R2428 R2556 R2557 .R2734 R53/165472J D5307 -D5312 .D5314 .D5319 155254 R2418 R2424 R2478 .R2774 R51/165472J D5307 -D5312 .D5314 .D5319 155254 R2418 R244 R2478 .R2774 R51/165472J D5607 -D5618 .D5668 .D5668 155254 R244 R2478 .R2774 R51/165472J D5607 -D5618 .D5669 .D5668 .D5		R2712	R2713	R2719 ,R2761 ,R2805	RS1/16S471J		Q5601			2SD880
R2378 R2410 R2413 R2414 R31/169472J D5307 D5312 D5314 D5319 ISS264 R258 R244 R2478 R2774 R31/169472J D5329 D5326 D5660 1-05618 ISS254 R244 R2478 R2774 R31/169473J D5623 D5688 D5667 D5668 ISS254 R2329 R34/169473J D5623 D5688 D5667 D5668 ISS254 R2329 R34/169473J D5623 D5688 D5667 D5668 ISS254 R2329 R347 R2575 R2317 R2726 R31/169561J D5629 D5306 D5320 D5326 D5696 MTZ.J11 D5296 D5306 D5320 D5326 D5696 MTZ.J12 D5620 D5620 D5620 D5626 D5620 D5626 D5620 D5626		•	•	, ,			Q5611			2SK117
R2422 R2423 R2565 R2567 R2734 R51/16S472J R2444 R2478 R2774 R51/16S472J D5623 -D5668, D5667 D5668 1S5254 R2444 R2478 R2774 R51/16S473J D5623 -D5668, D5667 D5668 1S5254 R2444 R2478 R2774 R51/16S473J D5623 -D5668, D5667 D5668 1S5254 R2275 R2810 R51/16S561J D5692 D5693 1S5254 R2725 R2810 R51/16S561J D5692 D5693 D5320 -D5328 D5691 MTZ.111 R2370 R2371 R2375 R2377 R2726 R51/16S562J D5621 D5629 D5666 MTZ.111 R2770 R2770 R2371 R2375 R2377 R2726 R51/16S562J D5621 D5629 D5666 MTZ.111 R2770 R2770 R2780 R51/16S563J D5620 MTZ.115 R2472 R2793 R2796 R2803 R2804 R51/16S681J D524 -D5292 S5688 R2224 R2244 R51/16S683J L5602 AND FILTERS R2236 R2424 R51/16S683J L5602 AND FILTERS R2236 R2424 R51/16S683J L5602 AND FILTERS R2236 R2424 R51/16S683J L5602 L5605 ATH-059 ATX 1008 L5233 L4U100J L5233 L5602 C5605 R2424 R51/16S683J R51/16S683J L5660 L5233 CCCCCH271J50 R51/16S62 R51/16S660 R51/16S605 R5		R2222,	,R2231,	R2232, R2238, R2354	RS1/16S472J		D5251	-D5283 ,D5293 -	-D5297	1SS254
R2838 R2444 R2478 R2774 R51/165873J D5623 -D5668 ,D5667 ,D5668 S2524 R2329 R31/165873J D5692 ,D5698 ,D5698 ,D5692 R2725 ,R2810 R51/1658561J D5288 -D5306 ,D5320 -D5288 ,D5619 MTZJ11 R2370 R2371 ,R2375 ,R2377 ,R272 R51/1658562J R2813 R2715 R51/1658562J R2703 ,R2706 ,R2803 ,R2804 R51/165862J R2703 ,R2706 ,R2803 ,R2804 R51/165868J R2472 R2472 R2420 R51/165882J R2424 R51/165868J R2424 R2424 R51/165882J R2424 R2424 R51/165882J R2424 R31/165882J R2424 R31/165882J R2424 R31/165882J R2424 R31/165882J R2424 R31/165882J R2424 R31/165882J R2424 R51/165882J R2424 R2236 ,R2424 R51/165882J R2424 R31/165882J R2424 R31/165882J R2424 R31/165882J R2424 R31/165882J R2424 R31/165882J R31/16582J		R2378,	,R2410,	R2413 ,R2414	RS1/16S472J		D5307	-D5312 ,D5314 -	-D5319	1SS254
R2444 R2478 R2774 R51/16S473J D6622 -D6668 D5667 D5684 D5688 R58254 R2329 R2725 R2810		R2422 ,	,R2423	,R2556 ,R2557 ,R2734	RS1/16S472J		D5329	-D5356, D5601 -	-D5618	1SS254
R2329		R2838			RS1/16S472J					
R2329 R31/685812J D5692 D5693 S322-D5328 D5619 MTZJ11 R2370 R2371 R2375 R2377 R2728 R51/68562J D5621 D5629 D5606 D5320 -D5328 D5619 MTZJ11 R2715 R51/165862J D5620 D5620 D5620 MTZJ115 R2716 R2703 R2706 R2803 R2804 R51/165862J D5620 D5620 MTZJ115 R2452 R2722 R2820 R51/165882J D5620 MTZJ15 R2452 R2722 R2820 R51/165882J D5620 D5224 -D5224 D5629 S6686 C6247 R2474 R51/165823J L5601 ATX1008 L5251 L01100J L5251 L		R2444 ,	,R2478	,R2774	RS1/16S473J		D5623	-D5658 ,D5667 ,	D5668	
R2725, R2810									D5689	
R2370 R2371 R2375 R2377 R2726 R51/16S562J D5661 D5669 D5666 MTZJ115 R51/16S562J D5682 MTZJ115 R51/16S623J D5682 MTZJ115 D5682 MT										
R 2213 R 2511 R 55523 D 5682 MTZ.112C D5820 MTZ.112C D5820 MTZ.115 R 27015 R 27015 R 2803 R 2804 R 251165823 D 5824 D 5292 S 55886 R 2452 R 2722 R 2820 R 251165881 D 5284 D 5292 S 55886 R 2424 R 251165882 D 5284 D 5292 S 55886 R 2424 R 251165882 D 5284 D 5292 D 5284 D 5292 R 2526 R 2424 R 251165882 D 5284 D 5292 D 5284 D 5292 R 2526 R 2424 R 251165882 D 5284 D 5292 D 5284 D 5292 R 2526 D 5284 D 5292 D 5284 D 5282 D 52									D5328 ,D5619	
R2715 R51/165623J D5682 MTZ1/15 D5620 MTZ1/1			,R2371 ,	R2375 ,R2377 ,R2726			D5621	,D5659 ,D5666		MTZJ11
R2703 R2706 R2803 R2804 R31/16S681J D5284 -D5292 S5688G R2452 R2722 R2820 R51/16S683J L5602 L5605 ATT-059 ATT-1059 R2474 R31/16S692J L5602 L5605 ATT-059 ATT-1059 L5251 LAU100J L5251 L5251 LAU100J L5251 L										
R2703 R2706 R2803 R2804 R51/16S681J COILS AND FILTERS R2224 R51/16S683J L5602 L5605 ATH-059 R2474 R31/16S683J L5601 ATX1008 R2230 R2424 R51/16S683J L5601 ATX1008 R2230 R2424 R51/16S683J L5601 ATX1008 R2230 R2424 R51/16S683J L5601 ATX1008 R2230 R2424 R51/16S823J L5601 ATX1008 VR2701.VR2801 R=470.W=0.1MAKER= ACP1039 L5251 LAU100J Other Resistory R51/10SL□□J PHERS 2704 2705 PULG CORD ADX2497 C5259 CN2202 PULG S2-P AKM1154 C5299 CCCCH271J50 CN2202 PULG 42-P AKM1155 C5629 CCCCH271J50 CN2202 PULG 44-P AKM1155 C5629 CCCCL101J50 X2201 -X2203 CERAMIC RESONATOR AS51015 C5296 CCCSL101J50 CN2203 PULG 44-P KM250MA1L C5298 CCCSL150J50 CN2204 L-PLUG(10P) KM250MA1L C5298 CCCSL220J50 CN2205 PULG 4-P KM250MA4L C5298 CN2206 PULG 4-P KM250MA4L C5298 CN2207 PLUG 4-P KM250MA4L C5298 CN2208 L-PLUG(8P) KM250MA4L C5298 CN2209 L-PLUG(8P) KM250MA4L C5298 CN2200 L-PLUG(8P) KM250MA4L C5298 CS295 C5297 C5331 C5257 C5312 CEAT101M10 C5255 C5296 C5257 C5321 C5257 C5321 CEAT101M10 C5255 C5601 C5257 C5601 C5259 C5601 C5601 C6AT101M10 C5255 C5601 C5255 C5261 C5260 C5261 C5010 C6AT101M10 C5255 C5601 C5255 C5261 C5260 C5261 C5010 C6AT101M10 C5255 C5601 C5255 C5261 C5260 C5261 C5010 C6AT101M10 C5255 C5601 C5257 C5261 C5262 C527 C5311 C5261 C6AT101M10 C5255 C5601 C5255 C5260 C5264 C5261 C5304 C5274 C6262 C6AT101M10 C5255 C525 C5260 C5264 C5260 C5264 C5271 C6AT101M10 C5268 C5257 C5260 C5260 C5264 C5260 C5271 C74HC4053AP C5260 C5260 C5267 C5267 C5267 C5274 C5260 C5260 C5267 C5267 C5267 C5274 C5260 C5260 C5267 C5267 C5267 C5274 C5260 C526		R2715			RS1/16S623J					
R2452 R2722 R2820 R51/16S682J L5605 AND FILTERS R2474 R51/16S683J L5602 L5605 ATH-059 R2474 R2230 R2424 R51/16S823J L5601 ATX1008 R2230 R2424 R51/16S823J L5251 LAU100J VR2701,VR2801 R=470,W= 0.1MAKER= ACP1039 L5606 LAU220J Other Resistors R51/10SIDIDIJ DTHERS		D0700	D0700	D0000 D0004	D04/400004 I			DECCO		
R2224				· · · · · · · · · · · · · · · · · · ·		0011				55688G
R2474			,K2122 ,	,R282U		COIL				
R2236 ,R2424								-L5605		
VR2701.VR2801			P2/12/							
VR2701,NR2801 R=470,W= 0.1,MAKERA ACP1039 RS1/10SIDIDIJ L5252 LAU4R7J OTHERS L5252 LAU4R7J 2704,2705 PULG CORD ADE1171 CAPACITORS J2703 10P HOUSING WIRE ADX2496 C5638 CCCCH271J50 CN2203 PLUG 32-P AKM1154 C5259 C5299 CCCCH4R0C50 CN2202 PLUG 44-P AKM1155 C5629 CCCSL110J50 CCCSL110J50 CCCSL110J50 CCCSL170J50 CCX202 PLUG 44-P AKM1155 C5629 CCCSL150J50 CCCSL150J50 CCCSL170J50 CCX201 X2201 X2203 CERAMIC RESONATOR ASS1015 C5296 CCCSL150J50 CCX210 X2203 CERAMIC RESONATOR ASS1015 C5296 CCCSL150J50 CCX215 CX201 X2203 CERAMIC RESONATOR ASS1015 C5296 CCCSL220J50 CN2213 PLUG 3-P KMZ50MA3LR C5632 C5334 CCCSL220J50 CN2213 PLUG 3-P KMZ50MA3LR C5636 CCCSL220J50 CN2213 PLUG 3-P KMZ50MA3LR C5636 CCCSL220J50 CX220 PLUG 4-P KMZ50MA4LB C5288 CCCSL220J50 CX220 PLUG 4-P KMZ50MA4LB C5288 C5287 C5337 CCCSL30J50 CX2209 L-PLUG(8P) KMZ50MA8LB C5287 C5283 C5283 CCCSL50J50 CX2209 L-PLUG(8P) KMZ50MA8LB C5287 C5283 C5283 CCCSL50J50 CX2209 L-PLUG(8P) KMZ50MA8LR C5283 C5283 C5281 C5282 C5297 C5321 CEAT100M50 CCSL50J50 CN2209 L-PLUG(8P) KMZ50MA8LR C5283 C5283 C5281 C5282 C5297 C5321 CEAT100M50 CCSL50J50 CN2209 L-PLUG(8P) KMZ50MA8LR C5283 C5283 C5281 C5282 C5297 C5321 CEAT100M50 CCSL50J50 CN2209 L-PLUG(8P) KMZ50MA8LR C5283 C5283 C5281 C5282 C5297 C5321 CEAT101M10 C5255 MC14577CP C5501 C5255 C5261 C5305 C5328 C5601 CEAT101M10 C5255 MC14577CP C5501 C5255 C5261 C5305 C5302 C5270 CEAT101M10 C5255 C5255 C5261 C5265 C528 C528 C5270 C5271		112230 ,	,1\2424		KOTIVIIVII SIK95					
Other Resistors RS1/10S□□□J E525 LAU4R7J C704 L2705 PULG CORD ADE1171 CAPACITORS J2703 10P HOUSING WIRE ADX2496 C5638 CCCCH271J50 J2702 4P HOUSING WIRE ADX2497 C5259 CCCCH4771J50 CN2203 PLUG 32-P AKM1154 C5298 (5299) CCCCH4R0C50 CN2202 PLUG 44-P AKM1155 C5629 CCCCH4R0C50 K2201 - K2237 , K2241 TEST PIN AKX9002 C5332 CCCSL150J50 K2201 - X2203 CERAMIC RESONATOR ASS1015 C5296 CCCSL150J50 CN2201 - X2203 CERAMIC RESONATOR ASS1015 C5296 CCCSL180J50 CN2201 - X2203 CERAMIC RESONATOR ASS1016 C5296 CCCSL180J50 CN2204 - LPLUG (10P) KM250MA10L C5288 CCCSL180J50 CN2205 - PLUG 4-P KM250MA4LB C5329 , C5330 , C5637 CCCSL280C50 CN2207 - PLUG (8P) KM250MA8LB C5287 , C5287 , C5337 , C5338 CCCSL3650J50		VR2701	I VR280	1 R=470 W= 0.1 MAKFR=	ACP1039					
OTHERS L5252 LAU4R7J 2704, 2705 PULG CORD ADE1171 CAPACITORS 12703 10P HOUSING WIRE ADX2496 C5638 CCCCH21J50 J2702 4P HOUSING WIRE CN2207 C5259 CCCCH271J50 CN2203 PLUG 32-P AKM1154 C5298, C5299 CCCCH4R0C50 CN2201 PLUG 44-P AKM1155 C5629 CCCSL150J50 K2201-K2237 K2241 TEST PIN AKX9002 C5332 CCCSL150J50 X2201-X2203 CERAMIC RESONATOR ASS1015 C5296 CCCSL15150J50 CN2204 L-PLUG(IP) KM250MA10L C5296 CCCSL180J50 CN2213 PLUG 4-P KM250MA4L C5288 CCCSL220J50 CN2207 PLUG 4-P KM250MA4LB C5295 CCCSL230J50 CN2208 L-PLUG(IP) KM250MA8LB C5289, C5281, C5289, C5297, C5321 CEAS6R8M50 CN2209 L-PLUG(IP) KM250MA8LB C5289, C5281, C5289, C5297, C5321 CEAT100M50 SEMICONDUCTORS CXA1315P C5251, C5255, C5261, C5305, C			,	, ,			L5606			LAU220J
2704	OTHE						1 5050			I ALIADZ I
J2703	O 1111E		705	PLILG CORD	ADE1171	CADA		26		LAU4N73
J2702						CAPA		73		000011001100
CN2202 PLUG 44-P AKM1155 C5298 C5299 CCCCH4R0C50 CN2202 PLUG 44-P AKM1155 C5298 C5629 CCCCH4R0C50 CCCSL101J50 C5629 CCCCL101J50 CCCCL101J50 CCCSL101J50 C5629 CCCCL101J50 CCCCL101J50 CCCSL101J50 C5291 CCCSL101J50 CCCSL101J50 C5291 CCCSL101J50 CCCSL101J50 CCCSL101J50 C5292 C5332 CCCSL151J50 CCCSL151J50 C5292 C5334 CCCSL161J50 CCCSL20J50 CCCSL20J50 CCCSL20J50 CCCSL20J50 CCCSL220J50 CCSL220J50 CC										
CN2202			3					CE200		
K2201 - K2237 , K2241 TEST PIN								,05299		
X2201 - X2203 CERAMIC RESONATOR ASS1015 C5296 CCCSL150305							03023			CCCSLIGISSO
X2201 - X2203 CERAMIC RESONATOR ASS1015 C5296 CCCSL151J50		K2201 -	K2237,	K2241 TEST PIN	AKX9002		C5332			CCCSI 150J50
(8.00MHz) CN2204 L-PLUG(10P) KM250MA10L CN2213 PLUG 3-P KM250MA3LR CN2205 PLUG 4-P KM250MA4L CN2207 PLUG 4-P KM250MA4L CN2207 PLUG 4-P KM250MA4LB CN2209 L-PLUG(8P) KM250MA8LB CN2209 L-PLUG(8P) KM250MA8LB CN2209 L-PLUG(8P) KM250MA8LB CN2209 L-PLUG(8P) KM250MA8LR CN2209 L-PLUG(8P) CEASTON CECSLE20150 VIDEO ASSY SEMICONDUCTORS CS283 C5281, C5282, C5297, C5321 CEAT100M50 CS284 C5285 C5281, C5282, C5297, C5312 CEAT100M50 CS264 CXA1315P CS255 MC14577CP CS314, C5324, C5324, C5328, C5603 IC5601, IC5602 NJM7805FA C5605 IC5603, IC5604 NJM7809FA C5600 IC5603, IC5604 NJM7809FA C5600 IC5251 TA1276AN C5290, C5623, C5624 CEAT101M10 CEAT101M10 CEAT101M10 CEAT101M10 CEAT101M10 CEAT102M10 CEAT120M10 CEAT120M50 CEAT120M50 CEAT120M50 CEAT1221M10 C5252 TC74HC4658AP C5274 CEAT10M50 CEAT1221M10 C5268, Q5260, Q5264, Q5266, Q5301, 2SA933S C5319 CEAT221M16 C5272 CEAT221M16 C5272 CEAT221M16 C5272 CEAT221M25 C5272 CEAT22M50 CEAT222M16 C5326, Q5267, Q5259, Q5265 CSA133S C5272 CEAT22M50 CEAT222M16 C5256 C5257, Q5259, Q5265 CEAT222M50 CEAT222M16 C5256 C5257, Q5259, Q5266 CEAT222M50 CEAT222M16 C5256 C5257, Q5259, Q5266 CEAT222M16 C5256 C5257, Q5259, Q5266 CEAT222M50 CEAT222M16 C5272 CEAT22M50 CEAT222M16 C5276 CEAT222M50 CEAT222M16 C5276 CEAT222M50 CEAT222M16 C5276 CEAT222M16 C5276 CEAT222M50 CEAT222M16 C5277 C5259, Q5259, Q5266 CEAT222M50 CEAT222M16 C5256 C5257, Q5259, Q5266 CEAT222M50 CEAT22M50 CEAT2CM50 CEAT2CM50 CEAT2CM50 CEAT2CM50 CEAT2CM50 CEAT2C		X2201 -	X2203	CERAMIC RESONATOR	ASS1015					
CN2204								,C5334		
CN2205 PLUG 4-P KM250MA4L CN2207 PLUG 4-P KM250MA4LB CN2206 L-PLUG(8P) KM250MA8LB CN2209 L-PLUG(8P) KM250MA8LR CS287 CS337 CC3337 CC3338 CCCSL560J50 CS283 C5283		-		, ,			C5288			CCCSL220J50
CN2207 PLUG 4-P KM250MA4LB C5329 ,C5330 ,C5637 CCCSL2R0C50 CN2209 L-PLUG(8P) KM250MA8LB C5287 ,C5337 ,C5338 CCCSL560J50 CEASCOMABLE C5283 ,C5287 ,C5337 ,C5338 CCCSL560J50 CEASCOMABLE C5283 ,C5287 ,C5337 ,C5321 CEAT100M50 CEAT100M50 CEAT101M10 (C5254 C5255 C5261 ,C5255 C5261 ,C5305 ,C5312 CEAT101M10 (C5601,IC5602 NJM7809FA IC5603,IC5604 NJM7809FA IC5251 TA1276AN C5290 ,C5623 ,C5624 CEAT101M16 (C5255 C5261 ,C5305 ,C5312 CEAT101M16 (C5255 C5261 ,C5305 ,C5312 CEAT101M10 (C5251 C5305 ,C5312 CEAT101M10 (C5603,IC5604 NJM7809FA C5600 CEAT101M16 (C5255 C5603,IC5604 NJM7809FA C5600 CEAT101M16 (C5255 C5261 ,C5305 ,C5312 CEAT101M10 (C5251 C5305 ,C5312 C5603 CEAT101M10 (C5251 C5305 ,C5312 C5603 CEAT101M10 (C5251 C5305 ,C5302 CEAT101M16 (C5252 C5303 ,C5604 CEAT101M16 (C5252 C5303 ,C5604 CEAT101M16 (C5252 C5303 ,C5604 CEAT101M16 (C5252 C5303 ,C5604 CEAT101M16 (C5252 C5304 ,C5301 ,C5304 ,C5331 ,C5605 ,C5603 (CEAT102M10 CEAT102M10 (C5251 -C5255 ,C5260 ,C5264 CEAT102M10 (C5251 -C5255 ,C5260 ,C5264 CEAT101M16 (C5251 C5252 C5274 (C5301 ,C5304 ,C5331 ,C5625 ,C5628 (CEAT120M50 (C5252 C5274 ,C5304 ,C5331 ,C5625 ,C5628 (CEAT220M50 (C5274 C5305 ,C5604 (C5304 ,C5331 ,C5625 ,C5628 (CEAT220M50 (C5274 C5305 ,C5604 (C5305 ,C5605 (C5274 (C5305 ,C5605 ,C5605 (C5274 (C5305 ,C5605 ,C5605 (C5274 (C5305 ,C5605 ,C5605 (C5274 (C5305 ,C5605 ,C5605 ,C5605 (C5274 (C5305 ,C5605 ,C5605 ,C5605 (C5274 (C5305 ,C5605 ,C5605 ,C5605 ,C5605 ,C5605 ,C5605 ,C5605 (C5272 (C547220M50 ,C5305 ,C5605 ,C5							C5636			CCCSL221J50
CN2207		CN2205)	PLUG 4-P	KM250MA4L					
CN2206		CNIOOO	7	DLUC 4 D	KM250MA4LD					
CN2209 L-PLUG(8P) KM250MA8LR C5283 CEAS6R8M50 C5283 CEAS6R8M50 C5269 ,C5281 ,C5282 ,C5297 ,C5321 CEAT100M50 CEAT100M50 CEAT100M50 CEAT1221M16 C5255										
C5269				` ,				,C5337 ,C5338		
C5336		0112200	,	L 1 200(01)	TOTAL CONTROLLE			05004 05000	05007 05004	
SEMICONDUCTORS C5336 CEAT100M50 IC5254 CXA1315P C5251 ,C5255 ,C5261 ,C5305 ,C5312 CEAT101M10 IC5255 MC14577CP C5314 ,C5324 ,C5326 ,C5328 ,C5603 CEAT101M10 IC5601,IC5602 NJM7805FA C5605 CEAT101M10 IC5603,IC5604 NJM7809FA C5620 CEAT101M16 IC5251 TA1276AN C5290 ,C5623 ,C5624 CEAT101M25 IC5253 TC74HC4053AP C5601 CEAT102M10 IC5605 TC74HC4066AP C5274 CEAT102M10 IC5252 TC74HC4538AP C5301 -C5304 ,C5331 ,C5625 ,C5628 CEAT220M50 Q5251 -Q5255 ,Q5260 -Q5264 ,Q5266 2SA933S C5270 CEAT221M10 Q5268 ,Q5270 ,Q5276 ,Q5277 2SA933S C5319 CEAT221M16 Q5285 -Q5287 ,Q5290 -Q5296 ,Q5301 2SA933S C5309 CEAT221M25 Q5205 ,Q5306 ,Q5314 ,Q5318 ,Q5604 2SA933S C5615 ,C5619 CEAT222M16 Q5008 ,Q6609 Q5256 ,Q5257 ,Q5259 ,Q5265 2SA933S C5613 CEAT470M16	В	VIDE	0 49	vev			C5269	,05281 ,05282 ,	C5297 ,C5321	CEAI 100IVI50
IC5254							C5336			CEAT100M50
C5254	SEMI	COND	UCTO	RS				C5255 C5261	C5305 C5312	
C5255					CXA1315P				•	
C5601, C5602								,0002+,00020 ,	00020 ,00000	
C5603, C5604										
C5290 , C5623 , C5624			,IC5604							
C5253		IC5251			IA1276AN		C5290	,C5623 ,C5624		CEAT101M25
C5605		ICEGEO			TC74LIC4052AD		C5601			CEAT102M10
C5252 TC74HC4538AP C5301 -C5304 ,C5331 ,C5625 ,C5628 CEAT220M50							C5274			CEAT1R0M50
Q5251 -Q5255 ,Q5260 -Q5264 ,Q5266 2SA933S Q5268 ,Q5270 ,Q5276 ,Q5277 2SA933S C5319 CEAT221M16 Q5285 -Q5287 ,Q5290 -Q5296 ,Q5301 2SA933S C5309 CEAT221M25 Q5305 ,Q5306 ,Q5314 ,Q5318 ,Q5604 2SA933S Q5608 ,Q5609 2SA933S Q5256 ,Q5257 ,Q5259 ,Q5265 2SC1740S C5270 CEAT2R2M50 C5210 CEAT222M16 C5270 CEAT2R2M50 C5272 CEAT2R2M50 C5272 CEAT470M16							C5301	-C5304 ,C5331 ,	,C5625 ,C5628	CEAT220M50
Q5268 ,Q5270 ,Q5276 ,Q5277				05260 -05264 05264			C5270			CEAT221M10
Q5285 -Q5287 ,Q5290 -Q5296 ,Q5301 2SA933S				•						
Q5285 -Q5287 ,Q5290 -Q5296 ,Q5301 2SA933S		QU200	, 30210	, 40210 , 40211	23/10000					
Q5305 ,Q5306 ,Q5314 ,Q5318 ,Q5604		Q5285	-Q5287	.Q5290 -Q5296 .Q5301	2SA933S					
Q5608 ,Q5609				•				,C5619		
Q5256 ,Q5257 ,Q5259 ,Q5265 2SC1740S				. , ,						
				,Q5259 ,Q5265			C5613			CEA14/UM16
					2SC1740S					

C5592 C5683 C5474 (7000)	Mark	No.	Descrip	tion	Part No.	Mark	No.	Description	Part No.
C6807, C5808 C5474***** C5816, C5822 C5474**** C5816, C5822 C5241, C5273, C5284 C5474*** C5286, C5827, C5273, C5284 C5274, C5273, C5284 C5286, C5286, C5287, C5273, C5284 C5286, C5286, C5286 C5274, C5273, C5284 C5286, C5284, C5282, C5281, C5282, C5284, C5282, C		C5292	.C5632 .C5	634	CEAT470M25		IC7007	JC7105	PQ05RD1B
C56816_C5682									
CS285 CS285 CS287 CS271 CS273 CS284 CS271 CS287 CS287 CS287 CS287 CS287 CS287 CS287 CS287 CS288 CS287 CS288 CS287 CS288 CS287 CS288 CS287 CS288 CS287 CS288 CS287 CS289 CS28									
C5287 C5286 C5271 C5273 C5281 CEATR (10M50 IC7100 IC7300 TA1270AF									
C5335				271 ,C5273 ,C5284					
C5335		C5286			CEATR47M50		IC7502	.IC7600	TC74HC4066AF
C5252 (5254 G5262 (5278 C5289 C5077 G5289 C5770 C5270 C5270 C5281 C5310 C5311 C5760 C77003 C7706 C5311 C5313 (5316 -65318 C5320 C5325 C6571 C5313 C5316 C5318 C65320 C6532 C5313 C5316 C5318 C6520 C5313 C5316 C5318 C6520 C5313 C5316 C5318 C6520 C5313 C5316 C5318 C6520 C5312 C5641 .C5660 C5690 C5691 C5692 (5691 .C5691 .C5693 C5695 C67703 C7704 C7706 C5691 C5692 (5693 .C5693 .C5693 C5695 C67703 C7704 C7702 C7702 C7702 C7702 C7703 C7704 C7705 C7705 C7705 C7705 C7704 C7705		C5335			CKCYB391K50				TC74HCT32AF
C5293 (C5294 (C5206 (C5206 (C5207 CKCYF103250 C1706		C5252	.C5254 ,C5	262 ,C5278 ,C5289	CKCYF103Z50		IC7009		TC7S66FU
C5811 C5816 C5818 C5820 C5825 CKCYF103Z50 C7507 TC7004FU									
CS609 CS612 CS614 CS615 CS617 CKCYF103Z50 IC7703 IC7704 TLC2932IPW DP6806816GF-3BA CS625 CS628 COPA103J2A C7709 C7712									
C5621 C5626 C5631 C5633 C5633 C5635 CKCYF103Z50 C7002 U7009 U7002 U7009 U7002 U7009									
CS253 CS256 CS268 CS268 CS267 COMA103JS0 C7002 C7003 C7003 C7007 C7008 28A1162 C7052 C5263 C5263 C5268 C5275 COMA104JSA C7019 C70112 C7012									
C5263 - C5268 C5275 - C5277				631 ,C5633 ,C5635	CKCYF103Z50				UPD64081BGF-3BA
C5323									
C5290		C5263	-C5268 ,C5	275 -C5277	CQMA104J50		Q7109	-Q7112, Q7121 ,Q7128 -Q713	31 2SA1162
C5260 CQPA271J2A Q7603 Q-7605 Q-7700 Q-07706 Q 25A1162 Q RESISTORS R6602 R010/2MMF4R5J R5341 R5319 R5321 R5326 R5331 R5326 R5327 R5326 R5331 R5326 R5327 R5326 R									
RESISTORS R5602 R5605 R5607 R5617 R5317, R5319, R5321 , R5326 , R5331 R5336 R5317, R5319, R5321 , R5326 , R5331 R5336 R5285 R5287 R511/2PM100J R5336 R5285 R5287 R511/2PM100J R5328, R53328 , R5333 R5328 , R5333 R5336 R5295 R5294 RN1/4PC3201F R5296 R5297 R5298 R51/4PC2201F R5646 R5646 R51MMF2R7J R5641 R5646 R51MMF2R7J R5644 R51MMF2R3D R5645 R51MMF2R3D R5646 R51MMF2R3D R5646 R51MMF2R3D R5647 R5647 R51MMF2R3D R5648 R51MMF2R3D R5649 R51MMF2R3D R5640 R51MMF2R3D R56									
R5602 R6688 R5317 ,R5319 ,R5321 ,R5326 ,R5331 R5336					CQPA2/1J2A				
R5686 R51MF2R7J R5298 R714PC2201F D7800 D7801 D7808 D7802 D7802 D7807 D7802 D7802 D7809 D7701 D7808 D7802 D7802 D7809 D7801 D7809 D7801 D7809 D7801 D7809 D7801 D7809 D7801 D7809 D7	RESI		5						
R5317_R5319_R5321_R5321_R5321_R5321_R5326_R5331 RD1/2PM100J R5285_R5287 RD1/2PM101J R5285_R5287 RD1/2PM101J R5285_R5287 RD1/2PM101J R5285_R5287 RD1/2PM101J R5295_R5295_R5333 RD1/2PM301F R5296_R5295_R5297 RN1/4PC8200F R5296_R5297_RN1/4PC8200F R5298_R5298_RN1/4PC301F R5298_R5298_R51/4PC2201F R5298_R5298_R51/4PC2201F R5298_R5299_R5		R5602			RD1/2MMF1R5J		Q/100	,Q7101 ,Q7103 -Q7108	2SC2712
R5336 RD1/2PM100J R5285 RD1/2PM100J R5285 R5294 R5295 RN1/4PC320JF R5296 RN1/4PC320JF R5298 RN1/4PC20JF R5298 RN1/4PC20JF R5298 RN1/4PC20JF R5298 RN1/4PC20JF R5298 RN1/4PC20JF R5298 RN1/4PC20JF R5298 RN1/4PC30JF R5296 RN1/4PC30JF R5298 RN1/4PC30J							07440	07400 07400 07000 0700	14 0000740
R5288 - R5287			R5319 ,R5	321 ,R5326 ,R5331					
R5260 R5294 R11/4PC8200F R5295 R11/4PC8200F R5295 R11/4PC8200F R5295 R11/4PC8200F R5295 R11/4PC8200F R5295 R11/4PC1202F D7800 ,D7801 D7802 -D7807 IS\$124 R5297 R11/4PC1202F D7802 -D7807 IS\$226 R11/4PC2201F D7800 ,D7501 ,D7501 ,D7500 R58352 R11/4PC2201F D7800 ,D7501 ,D7500 ,D7501 ,D7808 IS\$352 R5298 R11/4PC2201F D7802 -D7500 ,D7501 ,D7808 IS\$352 R5295 R5298 R11/4PC2201F D7500 ,D7501 ,D7600 R53522 R5298 R11/4PC2201F D7500 ,D7501 ,D7600 R5310MB R5845 R5374 R5845 R5314MF3R3J F7500 ,F7502 ,F7600 ,F7703 ,F7704 ATF1124 R5844 R52MMF8R2J F7001 ,F7002 ,F7003 ,F7701 ,F7702 ATF1127 R5644 R52MMF8R2J F7001 ,F7004 ,F7700 ATF1127 R5601 ,VR5251,VR5252 VRTHS6VS223 UT704 ,UT705 ATF1179 D17100 ATTN1054 AT		R5336			RD1/2PM100J				
R5323 ,R5328 ,R5328 ,R5328 ,R5328 ,R5328 ,R5328 ,R5328 ,R5295		R5285	-R5287		RD1/2PM101J				
R5294 RN1/4PC8200F RN1/4PC8200F R5295 RN1/4PC8200F R5295 RN1/4PC3201F D7800 ,D7801 ,D7808 ISS362 R5297 RN1/4PC3201F D7800 ,D7501 ,D7808 ISS352 D7500 ,D7501 ,D7808 D7500 ,D7501 ,D7808 ISS352 D7500 ,D7501 ,D7808 D7500 ,D7501 ,D7808 ISS352 D7500 ,D7501 ,D7808 D7500 ,D7501 ,D7500 ,D7501 ,D7500 ,D7501 ,D7500 ,D7501									
R5295			R5328 ,R5,	333			Q/000	,Q7601	2302112
R5297 RN1/4PC1202F D7802 -D7807 1SS226 R5298 RN1/4PC1202F D7500 ,D7501 ,D7808 1SS326 D7500 ,D7501 ,D7700 ,D7702 RD10MB R5646 RS1MMF2R7J R5645 RS1MMF2R7J R5645 RS1MMF2R7J R5645 RS1MMF3R3J F7500 -F7502 ,F7600 ,F7703 ,F7704 ATF1124 R5704 ,F7500 ,F7502 ,F7600 ,F7703 ,F7704 ATF1127 R5644 RS2MMF8R2J F7001 ,F7000 ,F7703 ,F7704 ATF1127 ATF1127 R5644 RS2MMF8R2J F7001 ,F7000 ,F7703 ,F7704 ATF1127 ATF1127 R5641 RS2MMF8R2J F7001 ,F7000 ,F7703 ,F7704 ATF1127 ATF1127 ATF1128 R5601 RS2MMF8R2J F7001 ,F7000 ,F7003 ,F7701 ,F7702 ATF1129 DL7100 ATN1054 ATF1129							D7900	D7901	100101
R5298									
R5646									
R5646 R51MMF2R7J F7500 F7500 F7600 F7703 F7704 ATF1124 R52645 R51MMF3R9J F7500 F7500 F7600 F7703 F7704 ATF1124 R5374 R5374 RS1MMF3R9J F7001 F7004 F7700 ATF1127 R5644 RS2MMF8R2J F7002 F7003 F7701 F7702 ATF1179 DL7100 ATN1054 ATF1127 DL7100 ATN1054 ATF1127 DL7100 ATN1054 ATF1127 ATF1127 DL7100 ATN1054 ATF1127 ATF11277 ATF1127 ATF		R5298			RN1/4PC2201F				
R8645						COII			KDTOWD
R5374						COIL			ATE 440.4
R5644									
NESSON									
R5601		K5044			RS2MMF8R2J				
VR5251,VR5252 Other Resistors VRTHS6VS223 RD1/4PU□□□J L7101 ,L7706 LCTA100J3225 OTHERS L7302 LCTA101J3225 CN5602-CN5604 SOCKET 32-P AKP1185 L7102 LCTA120J3225 CN5605-CN5609 CN5605 SOCKET 44-P AKP1186 L7100 ,L7303 LCTA121J3225 CN5251 PLUG 10-P KM250MA16 CN5253 RM250MA15 PLUG 9-P KM250MA15 L7103 LCTA3R9J3225 CN5601 PLUG 9-P KM250MA9 L7103 LC7001 LT7111 ,L7300 ,L7301 LCTA3R9J3225 LCTA3R9J3225 LCTA4R7J3225 CN5252 PLUG 9-P KM250MA9B PMZ30P100FZK L7108 ,L7109 ,L7111 ,L7300 ,L7301 LCTA5R6J3225 LCTA5R6J3225 LCTA6C JT508 ,L7508 ,L7500 L7502 ,L7503 QTL1013 SIGNAL ASSY L7602 ,L7603 ,L7603 ,L7605 ,L7606 L7508 ,L7600 QTL1013 L7602 ,L7603 ,L7603 ,L7605 ,L7606 QTL1013 L7701 ,L7702 L7707 ,L7711 -L7717 QTL1013 L67802 ,L7603 ,L7603 ,L7605 ,L7601 -L7603 MA07132 DC7001 ,L7604 ,L7503 -L7505 ,L7601 -L7603 MA07132 DC7001 ,L77004 ,L7503 -L7505 ,L7601 -L7603 MC14577CF FR80 -F7804 F7804 DCF602 ,C7502 ,C7509 ,C7512 CCSQCH101J50 (C7301 ,L7704 ,L7704 ,L7707 ,L7708 MC14577CF CAPACITORS L7701 ,L7704 ,L7704 ,L7708 MM0131XM C7515 ,C7529 ,C7530 ,C7530 ,C7530 ,C7501 CCSQCH101J50 (C		D5601			DC3I MEED6 I				
Other Resistors RD1/4PU□□□J L7101 ,L7706 LCTA100J3225 OTHERS L7302 LCTA101J3225 CN5602-CN5604 CN5609 CN5609 CN5609 CN5609 CN5605 CN5609 CN5605 CN5609 CN5253 SOCKET 44-P AKP1186 L7100 ,L7303 LCTA121J3225 LCTA121J3225 LCTA122J3225 LCTA12J3225 LCTA12J322 LCTA12J3225 LCTA			1 \/P5252				L7704,	,27703	A1 X 1033
OTHERS L7302 LCTA10J3225 CN5602-CN5604 CN5605-CN5609 CN5605 SOCKET 32-P SOCKET 44-P AKP1186 AKP1185 L7100 ,L7303 L7008 ,L7110 ,L7304 ,L7305 ,L7720 LCTA12J3225 LCTA12J3225 LCTA12J3225 CN5253 CN5251 CN5601 PLUG 15-P FULG 9-P FULG 9-P FU			,				I 7101	1 7706	I CTΔ100 I3225
CN5602-CN5604 SOCKET 32-P AKP1185 L7102 LCTA120J3225 LCTA12J3225 CN5605-CN5609 SOCKET 44-P AKP1186 L7100 ,L7303 LCTA12J3225 LCTA12J3225 CN5253 PLUG 10-P KM250MA10R L7008 ,L7110 ,L7304 ,L7305 ,L7720 LCTA22J3225 CN5251 PLUG 15-P KM250MA15 CN5601 PLUG 9-P KM250MA9 L7103 L7001 LCTA4R7J3225 CN5252 PLUG 9-P KM250MA9B L7108 ,L7108 ,L7109 ,L7111 ,L7300 ,L7301 LCTA5R6J3225 S602 SCREW PMZ30P100FZK L7505 ,L7506 ,L7506 ,L7500 ,L7502 ,L7503 QTL1013 C7502 ,L7503 L7506 ,L7506 ,L7506 ,L7506 ,L7506 ,L7506 ,L7506 ,L7508 ,L7600 QTL1013 L7505 ,L7506 ,L750	ОТНЕ		.00101010		ND 1741 OLLLO			,27700	
CNS605-CN5609 SOCKET 44-P AKP1186 L7100 ,L7303 LCTA121J3225 CNS605-CN5609 SOCKET 44-P AKP1186 L7008 ,L7110 ,L7304 ,L7305 ,L7720 LCTA220J3225 CN5251 PLUG 10-P KM250MA10 L7008 ,L7110 ,L7304 ,L7305 ,L7720 LCTA220J3225 CN5251 PLUG 9-P KM250MA9 L7001 LCTA4R7J3225 L7001 LCTA4R7J3225 CN5252 PLUG 9-P KM250MA9B L7108 ,L7109 ,L7111 ,L7300 ,L7301 LCTA5R6J3225 5602 SCREW PMZ30P100FZK L7002 -L7007 ,L7500 ,L7502 ,L7503 QTL1013 L7505 ,L7506 ,L7508 ,L7600 QTL1013 L7505 ,L7506 ,L7508 ,L7600 QTL1013 L7608 -L7634 ,L7707 ,L7711 -L7717 QTL1013 L7702 L7700 ,L7701 ,L7702 H7514264BJC-50A L7806 -L7810 QTL1013 L7700 ,L7700 ,L7503 ,L7505 ,L7505 ,L7506 ,L7508 ,L7602 L7700 ,L7701 ,L7702 H7514264BJC-50A L7806 -L7810 QTL1013 L7700 ,L7700 ,L7701 ,L7702 MA07132 F7503 ,F7504 ,F7601 ,F7602 VTF1097 L7700 ,L7701 ,L7702 MC14577CF F7800 -F7804 VTF1097 CAPACITORS L7501 ,L7604 ,L7707 ,L7708 MC14577CF F7800 -F7804 VTF1097 CAPACITORS L7501 ,L7604 ,L7707 ,L7708 MC14577CF CAPACITORS CAPACITORS CAPACITORS CCSQCH101J50 L7703 ,L7703 ,L7303 ,L7305 ,L7306 NJM2233BM C7600 -C7602 ,C7509 ,C7512 CCSQCH101J50 L77103 ,L7703 ,L7703 ,L7703 ,L7704 ,C7707 ,C7708 CCSQCH101J50 L77103 ,L7703 ,L7703 ,L7704 ,C7701 ,C7704 ,C77011 ,C7712 ,C7803 CCSQCH101J50 L77104 ,C7707 ,C7708 CCSQCH101J50 CCSQCH101J50 L77104 ,C7707 ,C7708 CCSQCH101J50 CCSQCH101J50 L77104 ,C7707 ,C7708 CCSQCH101J50 CCSQCH101J50 L77104 ,C7704 ,C7701 ,C7704 ,C7701 ,C7704 ,C7701 ,C7704 ,C7701 ,C7705 CCSQCH101J50 L77104 ,C7704 ,C7701 ,C7704 ,C7701 ,C7704 ,C7701 ,C7705 CCSQCH101J50 L77104 ,C7704 ,C7701 ,C7704 ,C7701 ,C7704 ,C7701 ,C7705 CCSQCH101J50 L77104 ,C7707 ,C7708 ,CCSQCH101J50 L77104 ,C7707 ,C7708 ,CCSQCH101J50 L77104 ,C7707 ,C7704 ,C7701 ,C7704 ,C7701 ,C7708 ,CCSQCH101J50 L77104 ,C7704 ,C7701 ,C7704 ,C7	OIII		ONECO4	COCKET 22 D	ALCD440E				
CNS253 PLUG 10-P KM250MA10R CN5251 PLUG 15-P KM250MA15 CN5601 PLUG 9-P KM250MA9 L7103 LCTA3R9J3225 CN5252 PLUG 9-P KM250MA9B L7108 ,L7109 ,L7111 ,L7300 ,L7301 LCTA5R6J3225 5602 SCREW PMZ30P100FZK L7002 ,L7502 ,L7503 QTL1013 SIGNAL ASSY SEMICONDUCTORS IC7802 24LC08B(I)SN L7720 L7721 ,L7743 ,L7800 -L7804 QTL1013 IC7802 1C7003 ,IC7701 ,IC7702 H7514264BJC -50A L7806 -L7810 QTL1013 IC7700 MA07132 F7503 ,F7504 ,F7601 ,F7602 VTF1097 IC7004 ,IC7503 -IC7505 ,IC7601 -IC7603 MB40C568HPFV IC7001 ,IC7006 ,IC7101 ,IC7708 MC14577CF F7800 -F7804 C7515 ,C7529 ,C7509 ,C7512 CCSQCH101J50 IC7103 ,IC7303 ,IC7305 ,IC7306 NJM2233BM C7600 -C7602 ,C7604 ,C7607 ,C7610 CCSQCH101J50 IC7710 NJM2283M C7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50 IC7701 ,C7702 NJM2283M C7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50								1 7303	
CN5251 PLUG 15-P KM250MA15 CN5601 PLUG 9-P KM250MA9 L7103 CN5252 PLUG 9-P KM250MA9B CN5252 PLUG 9-P KM250MA9B E7108 ,L7109 ,L7111 ,L7300 ,L7301 LCTA5R6J3225 CN5252 PLUG 9-P KM250MA9B E7108 ,L7109 ,L7111 ,L7300 ,L7301 LCTA5R6J3225 GN5252 PLUG 9-P KM250MA9B E7108 ,L7109 ,L7502 ,L7503 GTL1013 SIGNAL ASSY SEMICONDUCTORS IC7802 IC7802 IC703 ,IC7701 ,IC7702 IC7003 ,IC7701 ,IC7702 IC7004 ,IC7503 ,IC7505 ,IC7601 -IC7603 IC7004 ,IC7503 -IC7505 ,IC7601 -IC7603 IC7004 ,IC7503 ,IC7506 ,IC7605 IC7501 ,IC7604 ,IC7707 ,IC7708 MC14577CF IC7301 ,IC7604 ,IC7707 ,IC7708 MC14577CF IC7301 ,IC7304 ,IC7505 ,IC7605 IC7103 ,IC7305 ,IC7306 IC7103 ,IC7305 ,IC7306 IC7103 ,IC7305 ,IC7306 IC7101 ,IC7006 ,IC7306 NJM2233BM C7600 -C7602 ,C7604 ,C7507 ,C7610 CCSQCH101J50 IC7710 IC7710 NJM2233BM C7600 -C7602 ,C7604 ,C7701 ,C7712 ,C7803 CCSQCH101J50 IC7710 NJM2233BM C7600 -C7602 ,C7604 ,C7701 ,C7712 ,C7803 CCSQCH101J50 IC7710							,		
CN5601 PLUG 9-P KM250MA9 L7103 LCTA3R9J3225 L7001 LCTA4R7J3225 LCTA4R7J3225 LCTA4R7J3225 LCTA4R7J3225 LCTA4R7J3225 LCTA4R7J3225 LCTA4R7J3225 LCTA4R7J3225 LCTA4R7J3225 L7001 L7101 L7108 L7109 L7111 L7300 L7301 LCTA5R6J3225 L7002 -L7007 L7500 L7502 L7503 QTL1013 L7505 L7506 L7508 L7600 QTL1013 L7505 L7506 L7508 L7600 QTL1013 L7608 -L7604 L7707 L7711 -L7717 QTL1013 L7700 L7700 L7702 H7514264BJC -50A L7806 -L7810 QTL1013 L7700 L7700 L7700 L7505 L7505 L7505 L7504 L7806 -L7810 QTL1013 L7700 L7700 L7700 L7700 MA07132 F7503 L7504 L7601 L7602 VTF1097 L77001 L7006 L7505 L7606 L7505 L7606 MB40C568HPFV L7701 L7706 L7700 MC14577CF F7800 -F7804 VTF1097 CAPACITORS L7501 L7604 L7707 L7708 MC14577CF F7800 -F7804 VTF1097 CAPACITORS L7501 L7604 L7500 L7500 L7505 L7506 MM1031XM C7515 L7529 L7530 L7537 CCSQCH101J50 L7710 L7710 NJM2283M C7600 -C7602 L7604 L7607 L7610 CCSQCH101J50 L7710 NJM2283M C7600 -C7602 L7604 L7671 L7712 L7680 CCSQCH101J50 C7702 -C7704 L7711 L7712 L7780 CCSQCH101J50 C7702 -C7704 L7711 L7712 L7712 L7780 CCSQCH101J50 C7702 -C7704 L7711 L7712 L7712 L7780 CCSQCH101J50 C7702 -C7704 L7711 L7712 L7780 CCSQCH101J5							,		
CN5252 PLUG 9-P KM250MA9B L7108 ,L7109 ,L7111 ,L7300 ,L7301 LCTA\$6,J3225 L7502 L7502 ,L7503 ,L7506 ,L7506 ,L7508 ,L7600 QTL1013 L7505 ,L7506 ,L7508 ,L7600 QTL1013 L7608 -L7634 ,L7707 ,L7711 -L7717 QTL1013 L7700 ,L7701 ,IC7702 HY514264BJC -50A L7806 -L7810 QTL1013 L7700 ,IC7701 ,IC7503 ,IC7503 ,IC7505 ,IC7603 ,IC7505 ,IC7603 ,IC7505 ,IC7604 ,IC7503 ,IC7505 ,IC7603 ,IC7707 ,IC7708 MC14577CF F7800 -F7804 VTF1097 CAPACITORS IC7501 ,IC7604 ,IC7707 ,IC7708 MC14577CF F7800 -F7804 VTF1097 CAPACITORS IC7501 ,IC7604 ,IC7505 ,IC7605 MM1031XM C7515 ,C7529 ,C7530 ,C7537 CCSQCH101J50 IC7103 ,IC7303 ,IC7305 ,IC7306 NJM2233BM C7600 -C7602 ,C7604 ,C7607 ,C7610 CCSQCH101J50 IC7710 NJM2283M C7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50							L7103		LCTA3R9J3225
CF002		CNSOO	1	FLUG 9-F	RIVIZOUVIAS		L7001		
CF002		CNESS	2	DI LIC O D	KM250MA0B		L7108,	L7109 ,L7111 ,L7300 ,L7301	LCTA5R6J3225
SIGNAL ASSY SEMICONDUCTORS L7602 ,L7603 ,L7605 ,L7606 QTL1013 L7608 -L7634 ,L7707 ,L7711 -L7717 QTL1013 L7608 -L7634 ,L7707 ,L7711 -L7717 QTL1013 L7700 ,L7701 ,L7702 HY514264BJC -50A HX514264BJC -50A HX514264BJC -50A HX514264BJC -50A L7806 -L7810 QTL1013 L7700 ,MA07132 F7503 ,F7504 ,F7601 ,F7602 VTF1097 L7701 ,L7706 ,L7707 ,L7702 MC14577CF F7800 -F7804 VTF1097 CAPACITORS L7501 ,L7604 ,L7707 ,L7708 MC14577CF C7038 ,C7500 -C7502 ,C7509 ,C7512 CCSQCH101J50 L7301 ,L7103 ,L7304 ,L7303 ,L7305 ,L7306 NJM2233BM C7500 -C7602 ,C7604 ,C7607 ,C7610 CCSQCH101J50 L7710 NJM2283M C7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50			_						QTL1013
SEMICONDUCTORS	\Box				1 WZ301 1001 ZIX		L7505,	L7506 ,L7508 ,L7600	QTL1013
IC7802	ע						,		QTL1013
IC7003 ,IC7701 ,IC7702	SEMI	COND	UCTORS					, ,	
IC7700		IC7802			24LC08B(I)SN				
IC7004 ,IC7503 -IC7505 ,IC7601 -IC7603 MB40C568HPFV IC7001 ,IC7006 ,IC7101 ,IC7102 ,IC7302 MC14577CF F7800 -F7804 VTF1097 CAPACITORS IC7501 ,IC7604 ,IC7707 ,IC7708 MC14577CF C7038 ,C7500 -C7502 ,C7509 ,C7512 CCSQCH101J50 IC7301 ,IC7304 ,IC7500 ,IC7605 MM1031XM C7515 ,C7529 ,C7530 ,C7537 CCSQCH101J50 IC7103 ,IC7303 ,IC7305 ,IC7306 NJM2233BM C7600 -C7602 ,C7604 ,C7607 ,C7610 CCSQCH101J50 IC7710 NJM2283M C7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50 IC7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50 IC7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50 IC7702 -C7704 ,C7711 ,C7712 ,C7803 IC7803 -CCSQCH101J50 IC7904 ,C7704 ,C7711 ,C7712 ,C7803 IC7905 -C7906 ,C7507 ,C7610 IC7907 -C7907 ,C7907 ,C7		IC7003	,IC7701 ,IC	7702	HY514264BJC -50A				
IC7001 ,IC7006 ,IC7101 ,IC7102 ,IC7302 MC14577CF F7800 -F7804 VTF1097							F7503 ,	F7504 ,F7601 ,F7602	VTF1097
CAPACITORS IC7501 ,IC7604 ,IC7707 ,IC7708 MC14577CF C7038 ,C7500 -C7502 ,C7509 ,C7512 CCSQCH101J50 (C7301 ,IC7304 ,IC7500 ,IC7605 MM1031XM C7515 ,C7529 ,C7530 ,C7537 CCSQCH101J50 (C7103 ,IC7303 ,IC7305 ,IC7306 NJM2233BM C7600 -C7602 ,C7604 ,C7607 ,C7610 CCSQCH101J50 (C7710 NJM2283M C7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50				·			F7666	F7004	\/TE400=
IC7501 ,IC7604 ,IC7707 ,IC7708 MC14577CF C7038 ,C7500 -C7502 ,C7509 ,C7512 CCSQCH101J50		IC7001	,IC7006 ,IC7	101 ,IC7102 ,IC7302	MC14577CF	045			VTF1097
IC7301 ,IC7304 ,IC7500 ,IC7605 MM1031XM C7515 ,C7529 ,C7530 ,C7537 CCSQCH101J50 IC7103 ,IC7303 ,IC7305 ,IC7306 NJM2233BM C7600 -C7602 ,C7604 ,C7607 ,C7610 CCSQCH101J50 IC7710 NJM2283M C7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50		107501	107004 10	27707 107700	MC44E770E	CAP			
IC7103 ,IC7303 ,IC7305 ,IC7306 NJM2233BM C7600 -C7602 ,C7604 ,C7607 ,C7610 CCSQCH101J50 IC7710 NJM2283M C7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50									
IC7710 NJM2283M C7702 -C7704 ,C7711 ,C7712 ,C7803 CCSQCH101J50									
07762 07764 ,07771 ,07712 ,07600 0000011101000				000 JU, 000 IU					
CCSQCH120J50 C7153 ,C7360 ,C7363 CCSQCH120J50									
		107000			1 104337		C/153	,07340 ,07361 ,07363	CCSQCH120J50

Mark	No.	Description		Part No.	Mark	No.	Description	on	Part No.
	C7145	.C7147		CCSQCH121J50		C7311	-C7317		CFHSP104J16
	C7357	,		CCSQCH180J50		C7810			CFHSP563J16
	C7355			CCSQCH181J50		C7804			CFHSQ103J16
	C7166	,C7778 ,C7788		CCSQCH220J50		C7012	,C7105 ,C715	55 ,C7305	CKSQYB103K50
	C7806			CCSQCH220J50		C7805			CKSQYB223K50
		,C7526 ,C7617 ,	C7620	CCSQCH221J50		C7057			CKSQYB473K50
		,C7362 ,C7364	07707 07700	CCSQCH270J50					CKSQYF103Z50
		,C7059 ,C7164 ,	C7727 ,C7728	CCSQCH330J50					CKSQYF103Z50
	C7760 C7148			CCSQCH330J50 CCSQCH331J50					CKSQYF103Z50 CKSQYF103Z50
	C/ 140								
	C7356			CCSQCH390J50					CKSQYF104Z50
	C7807			CCSQCH391J50					CKSQYF104Z50
	C7015	074.40		CCSQCH471J50					CKSQYF104Z50
	C7129 C7146	,07140		CCSQCH561J50 CCSQCH680J50					CKSQYF104Z50 CKSQYF104Z50
	C7365	,C7370		CCSQCJ3R0C50					CKSQYF104Z50
	C7623			CCSQSH121J50			-C7522 ,C752	•	CKSQYF104Z50
	C7101	,C7301		CCSQSL222J50					CKSQYF104Z50
	C7008 C7336	C7751		CCSQSL391J50 CEAT101M16			.C7553 ,C755 -C7616 ,C761		CKSQYF104Z50 CKSQYF104Z50
	C/330	,07751		CEATIONNIO		C/013	-07010,0701	0,07019	CK3Q1F104230
	C7729	,C7750		CEAT102M6R3					CKSQYF104Z50
	C7104			CEAT471M10			,C7644 ,C764		CKSQYF104Z50
	C7752	07400 07440	07405	CEAT471M16					CKSQYF104Z50
		,C7108 ,C7110 ,0 -C7310 ,C7325 ,		CEV100M16			,C7732 -C773		CKSQYF104Z50 CKSQYF104Z50
	C/308	-07310,07325,	C/344 -C/34/	CEVIOUWITO		C7730	,07732 -0773	04 ,C7730	CKSQ1F104250
		,C7707 ,C7713 ,					,C7740 ,C774		CKSQYF104Z50
		,C7034 ,C7046 ,					-C7771 ,C777	'3 -C7777	CKSQYF104Z50
		,C7326 ,C7532 ,					-C7782		CKSQYF104Z50
		,C7629 ,C7632 ,			RESI	STOR	5		
	C7731	,C7741 ,C7749 ,	C7755 ,C7759	CEV101M6R3		R7881	,R7764		RN1/16SE1001D RN1/16SE1101D
	C7809			CEV101M6R3			,R7074 ,R776	55	RN1/16SE1801D
		,C7130 ,C7141 ,	C7341 ,C7343			R7063	, - , -		RN1/16SE2201D
	C7546			CEV1R0M50		R7882			RN1/16SE3001D
	-	-C7144		CEV220M16					
	C7040	,C7042 ,C7044		CEV221M10				2,R7042,R7043, 2,R7043, 1,R7075-R7077	
	C7102	,C7103 ,C7302 ,	C7303	CEV2R2M50				0 ,R7114 ,R7133	RS1/16S0R0J
		,C7058 ,C7135 ,					•	R7281 ,R7310	RS1/16S0R0J
		,C7157 ,C7158 ,				R7334	,R7387 ,R741	6 ,R7500	RS1/16S0R0J
		,C7332 ,C7335 ,							
	C/539	,C7540 ,C7542 -	C7544	CEV470M16				R7528 ,R7530, 25	
	C763/	,C7635 ,C7639 ,	C7642 C7758	CEV/470M16				R7716, R7623, R7716	RS1/16S0R0J
	C7808	,01033 ,01039 ,	07042,07730	CEV470M16			,R7728 ,R775	3 ,R7810 ,R7840,	RS1/16S0R0J
		,C7030 ,C7047 ,	C7109 .C7156			R7884	D700E D740	4 D7400	RS1/16S0R0J
		-C7339, C7342,	,			K/U20	,R7035 ,R718	01 -R7 103	RS1/16S100J
	C7643		,	CEV470M6R3		P7261	-R7263 ,R735	3 -P7355	RS1/16S100J
	C7132	,C7133 ,C7329 ,	C7330 ,C7735	CEVNP100M16				64 -R7071 ,R7104	
								3 ,R7116 ,R7129	RS1/16S101J
	C7742	,C7746 ,C7747		CEVNP100M16				67 ,R7173 ,R7174	
	C7045	_	_	CEVNP1R0M50				9 ,R7180 ,R7184	
		-C7507 ,C7636 -	C7638	CEVNP2R2M35					
	C7748	07000		CEVNP470M6R3		R7187	,R7193 ,R719	6 ,R7208	RS1/16S101J
	C7128	,C7328		CEVNP4R7M16		R7233	-R7235 ,R724	,R7246 ,R7248	RS1/16S101J
	07400	C7200		CEV/DooMso				9 ,R7311 -R7314,	RS1/16S101J
	C7359	,0/300		CEVR22M50			,R7330 ,R734	1 ,R7345	RS1/16S101J
	C7358 C7107	C7307		CEVR47M50		R7351	,R7352		RS1/16S101J
	C7753			CFHS223J16 CFHS393J16		D====	D70-2	O D7070 5	D04/450/5::
		,C7111 -C7117 ,	C7306	CFHSP104J16				2 ,R7373 ,R7375	
	C7 100	,5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,000	J. 1101 104010		K/3/7	-K/381 ,R/40	87413, R7419 - 87	K51/16S101J

Mark	No.	Desc	ription	Part No.	Mark	No.	Desc	ription		Part No.
	R7415	.R7535	-R7537 ,R7615 -R7617	RS1/16S101J		R7399	.R7412	R7414	,R7711 ,R7719	RS1/16S272J
			,R7745 ,R7740 ,R7747				,R7748		, , -	RS1/16S272J
			,R7759 -R7761	RS1/16S101J			,	*	,R7336 ,R7339	
	R7766	-R7770	,R7800 ,R7803 -R7807	RS1/16S101J		R7363				RS1/16S273J
			,R7830 ,R7831	RS1/16S101J			,R7155	R7302		RS1/16S302J
		-R7876	,117 000 ,117 001	RS1/16S101J			,R7300	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RS1/16S303J
			,R7016 ,R7023 ,R7026				,R7727			RS1/16S330J
			,R7039 ,R7055 ,R7057					,R7519	,R7521 ,R7523	
	R7107	.R7108	,R7134 ,R7145 ,R7147	RS1/16S102J		R7610	,R7612	.R7614		RS1/16S332J
			,R7158 ,R7160 ,R7164						,R7337 ,R7340	
		,	,R7178 ,R7204	RS1/16S102J					,R7709 ,R7710	
			,R7342 ,R7343 ,R7350						,R7303 ,R7396	
		-	,R7382 -R7385	RS1/16S102J			,R7150			RS1/16S391J
	R7388	-R7391	,R7394 ,R7395 ,R7397	RS1/16S102J		R7120				RS1/16S392J
			,R7404 ,R7411	RS1/16S102J		R7240				RS1/16S393J
			,R7509 ,R7510 ,R7538	RS1/16S102J			.R7004	.R7017	,R7025 ,R7052	
			,R7601 ,R7602 ,R7624						R7771 ,R7811	
			,R7700 -R7703 ,R7708			R7812		,	,	RS1/16S471J
	020	, 020	,					.R7151	,R7152 ,R7161	
	R7721	R7725	,R7726 ,R7744 ,R7745	RS1/16S102.I		117010	,117021	,177 101	,107 102 ,107 101	1101/1004/20
			,R7829 ,R7868 ,R7879			R7160	R7240	R7347	R7348 ,R7512	RS1/16S472 I
	R7887	,117700	,117 020 ,117 000 ,117 07 0	RS1/16S102J			*	•	,R7532 ,R7603	
		R7020	,R7072 ,R7101 ,R7159				,R7607			RS1/16S472J
			,R7194 ,R7230 ,R7232						-R7839 ,R7844	
	11/100	,177 100	,117 134 ,117 230 ,117 232	1001/1001000					,R7153 ,R7349	
	P7230	D72/11	,R7301 ,R7325 ,R7357	PS1/16S103 I		17013	,130	,137	, 17 133 , 17 349	K31/1034/33
			,R7410 ,R7827 ,R7828			D7054	,R7402	D7722	D7722	RS1/16S561J
			,R7845 -R7867	RS1/16S103J			*	•	,R7743 ,R7756	
			,R7877 ,R7878 ,R7880						,R7324 ,R7842	
		,1010	,81011,81010,81000				-			
	R7883			RS1/16S103J			,R7197 ,R7198			RS1/16S681J RS1/16S751J
	R7518	,R7520	,R7522 ,R7609 ,R7611							
	R7613			RS1/16S104J		R7757	,R7758			RS1/16S751J
	R7050	,R7186	,R7189 ,R7195 ,R7358	RS1/16S122J		R7386				RS1/16S821J
	R7361	,R7367	,R7762	RS1/16S122J		R7040	,R7203			RS1/16S911J
	R7398			RS1/16S132J		R7236				RS3LMF4R7J
						R7168	,R7231			RS3LMF5R6J
		,	,R7205 ,R7207 ,R7506							
		,R7625	,R7627	RS1/16S152J			Resistors	3		RS1/10S□□□J
	R7163			RS1/16S153J	OTHE	ERS				
	R7156			RS1/16S162J		J7001		8P HO	USING WIRE	ADX2495
	R7010	,R7011	,R7146	RS1/16S182J		CN780	0	PLUG:	32 -P	AKM1154
						CN760	0	PLUG 4	44 -P	AKM1155
	R7171			RS1/16S183J		X7800		CERAMIC	RESONATOR(8.00MHz)	ASS1015
		,R7534		RS1/16S220J		X7101	,X7301	CERAMIC	RESONATOR(503KHz)	ASS1019
		,R7027	,R7041 ,R7202 ,R7206							
	R7242			RS1/16S221J		X7100	,X7300	CRYSTAL RE	SONATOR(3579 ,545KHz)	ASS1138
	R7019	,R7024	,R7029 ,R7036 ,R7121	RS1/16S222J		X7001		CRYSTAL	RESONATOR(20MHz)	ASS1140
						1 ,2		SCREV	V	BBZ30P100FZK
		,	,R7139 ,R7142 ,R7190			CN710	0	PLUG (6 -P	KM250MA6LR
			,R7328 ,R7335 ,R7338							
		,	,R7712 ,R7717 ,R7729	RS1/16S222J		SUR	VID	FO A	SSY	
		,R7739		RS1/16S222J					.001	
	R7138	,R7201	,R7524 ,R7526 ,R7529	RS1/16S223J	SEMI	IC4201	UCTO	RS		AN5344FBP
	R7531	,R7814	.R7886	RS1/16S223J		IC4201				AN5395FBP
	R7014	, ∪ 1 - r	,	RS1/16S224J		IC4401				CD74HCT4046AM
		R7008	,R7030 ,R7031	RS1/16S271J		IC4713				CXA1315M
		-	,R7105 ,R7106 ,R7122							
			,R7306 ,R7322 ,R7502			IC4005	,			HG62G010R29FB
	111204	,. 17 505	,111 000 ,111 022 ,111 002	1.01/1002/10		IC4722	,			M51952BML
	R7600	.R7731	,R7736 ,R7741	RS1/16S271J		IC3802				M52036SP
			,R7245 ,R7247 ,R7376			IC4403				MC14011BF
	55	,	,			10-100	-			

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	IC4202		MC14577CF		D4705	5 ,D4711	1SV232
	IC4402		PA0030	COII		D FILTERS	101202
				COIL	L4004		ATC1037
	IC4720		PE6002A9			-F4004 ,F4401 ,F4402 ,F4404	ATF1124
	IC4203		PQ20VZ1U			3,F4704	ATF1124
	IC4701		PST9146N			5-F4007	ATF1128
	IC4704		SAA4952WP		F4701		ATF1126
	IC4719		SAA4990H		F4701		AIFIIOU
	10.4700		0.4.4.74.05\4/D		L4706		ATG1060
	IC4702		SAA7165WP		F4715	ATG1063	F=30MHZ,RANGE=18.6P
	IC4004	10.4000	TA8667F		DL440	01 ,DL4402	ATN1029
	IC4002	,1C4003	TC35071F		DL420	01	ATN1040
	IC4007		TC4053BF		DL440	03	ATN1055
	IC3801		TC74HC4053AF				AT)/4005
	IC3803	,IC4006 ,IC4404 ,IC4718	TC74HC4066AF			,L4738	ATX1035
	IC3804	,104000 ,104401, 1047 10	TC74HC4538AF		L4745		LAUR33J
	IC4714		TC74HCT04AF			,L4704 ,L4705 ,L4710	LCTA100J3225
	IC4714		TC74HCT04AF			,L4714	LCTA100J3225
	IC4716		TC9078F		L4002	,L4003 ,L4005 ,L4006	LCTA101J3225
	104001		1030701		1 4007		I CTA 450 12025
	IC4703		TDA8755T		L4007		LCTA150J3225
		,IC4706	TMS4C2973 -26			7 -L4709	LCTA1R2J3225
	IC4707	•	UPC29L33T			,L4410 ,L4412	LCTA1R5J3225
	IC4709	•	UPC78L05T			3 ,L4712	LCTA1R8J3225
	Q4707,		2SA1037K		L4701	,L4702	LCTA221J3225
	Q-1101 ,	Q+100	20/1100/11		1 4745	. 1 4747	I CTAODO ISSOE
	Q3807	Q3808 ,Q3812 -Q3814	2SA1162			5-L4717	LCTA2R2J3225
		·Q3825 ,Q4002 ,Q4006	2SA1162			,L4406 ,L4407	LCTA4R7J3225
		Q4010 ,Q4013 ,Q4014	2SA1162			,L4402 ,L4404 ,L4411	LCTA5R6J3225
		Q4017 ,Q4027 -Q4029	2SA1162		L4401		LCTA820J3225
		Q4032 ,Q4036 -Q4038	2SA1162		L4408		LCTAR56J3225
	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			I 4718	-L4734 ,L4736 ,L4737	QTL1013
	Q4042 -	Q4044 ,Q4203 -Q4205 ,Q420	7 2SA1162) -L4744	QTL1013
		Q4219 ,Q4221 -Q4224	2SA1162			6 -F4721	VTF1097
		Q4227 ,Q4231 ,Q4232	2SA1162	CAD			VIF1091
		Q4235 ,Q4237 ,Q4243 -Q424	6 2SA1162	CAP	ACITO		
		Q4402 ,Q4406 ,Q4407 ,Q441			C4838		CCCCH100D50
	,	, , , , , , , , , , , , , , , , , , , ,			C4840		CCCSL101J50
	Q4422.	Q4423 ,Q4429 ,Q4433 -Q443	6 2SA1162		C4839		CCCSL680J50
		Q4706 ,Q4712	2SA1162			,C4432 -C4434 ,C4772 ,C4775	
		Q3806 ,Q3809 -Q3811	2SC2712		C4779	,C4835 ,C4836	CCSQCH100D50
		Q3821 ,Q3826 ,Q4001 ,Q400					
		Q4007 ,Q4008 ,Q4011 ,Q401				C4443, C4228, C4235, C4243, C4443	CCSQCH101J50
	,	, , , , , , , , , , , , , , , , , , , ,				3 -C4472	CCSQCH101J50
	Q4015	Q4018 -Q4026 ,Q4030	2SC2712			C4008 ,C4018 ,C4019,	CCSQCH121J50
	,	·Q4035 ,Q4039 -Q4041 ,Q404			C4021	C4482, C4022 ,C4076 -C4079 ,C4482	
		Q4048 ,Q4202 ,Q4206	2SC2712		C4431	,C4721	CCSQCH150J50
		Q4209 ,Q4212 -Q4215 ,Q422					
		Q4228 -Q4230 ,Q4233 ,Q423			C4442	2, C4478	CCSQCH151J50
	Q-1220 ,	Q+220 Q+200 ,Q+200 ,Q+20	0 2002/12		C4821	,C4823 ,C4825	CCSQCH180J50
	04238 -	·Q4240 ,Q4242 ,Q4247 -Q425	2 2SC2712		C4083	3 ,C4480	CCSQCH181J50
		Q4405 ,Q4408 ,Q4409 ,Q441			C4731	,C4732 ,C4805	CCSQCH220J50
		·Q4416 ,Q4418 -Q4421	2SC2712		C4011	,C4074 ,C4075 ,C4084	CCSQCH221J50
		Q4425 ,Q4428 ,Q4430 -Q443					
	,	Q4443 ,Q4701 ,Q4703 ,Q470			C4704	4 ,C4706 ,C4718 ,C4719	CCSQCH221J50
	Q4437 -	Q4443, Q4701, Q4703, Q470	3 2302/12		C4761	,C4762 ,C4773 ,C4776 ,C4780	CCSQCH221J50
	04700	04711 04717 04710	2802712		C4474	1 ,C4746	CCSQCH270J50
		Q4711 ,Q4717 -Q4719	2SC2712			C4822 ,C4824 ,C4826	CCSQCH271J50
	Q4004,	Q4210	2SK208			9 ,C4429 ,C4481	CCSQCH330J50
	D3855	D4200	1SS181			· ·	
	D4202,		1SS184		C4747	7 ,C4760	CCSQCH331J50
	D3801 -	D3839 ,D3841 -D3845	1SS226			,C4730	CCSQCH390J50
	D2949	D3850 D3852 D3954	188226			,C4081 ,C4410	CCSQCH470J50
		D3850 ,D3852 -D3854	1SS226			,C4771 ,C4774 ,C4778	CCSQCH560J50
		D4005 ,D4201 ,D4203 -D4207 D4701 ,D4702 ,D4706 ,D4712				3 ,C4749	CCSQCH680J50
	D4209 ,	11,04/10, 104/10, 104/12, 101, 101, 101	. 100002				

Mark	No.	Description	Part No.	Mark	No.	Description		Part No.
	C4009		CCSQCH820J50		C4792	-C4800 .C4804 .	C4808 .C4809	CKSQYF104Z50
	C4811		CCSQCH8R0D50					CKSQYF104Z50
	C4017		CCSQSL101J50			,C4713		CKSQYF333Z50
	C4424		CCSQSL221J50		C3805	,C3808 ,C3817 ,0	C4086	CKSQYF473Z50
	C4453		CCSQSL560J50		C4203	,C4204 ,C4223 ,0	C4224 ,C4238	CKSQYF473Z50
		,C3826 ,C4010 ,C4233 ,C4234				,C4417 ,C4421 ,	,	CKSQYF473Z50
		,C4425 -C4428 ,C4438	CEV100M16			,C4444 ,C4445 ,0	34447 ,C4449	
		,C4703 ,C4715 ,C4717 ,C4765 ,C4816 ,C4817	CEV100M16 CEV100M16		C3822	,C4452 ,C4742		CKSQYF473Z50
	C4231	,04010 ,04017	CEV100M10 CEV100M50		C3821			CQMA102J50 CQPA222J2A
	C4206	,C4207 ,C4225 ,C4230 ,C4236	CEV101M16		C3823			CQPA331J2A
		,C4440 ,C4454 -C4458 ,C4462		RESI	STORS	S		
		,C4006 ,C4037 ,C4039 ,C4041			R4395			RN1/16SE1101D
		,C4058 ,C4067 ,C4071 ,C4237			R4516			RN1/16SE3001D
	C4061	,C4212 ,C4213 ,C4216	CEV1R0M50			,R4037 ,R4097 ,I		
	C3803	,C3803 ,C4015 ,C4020 ,C4023	CEV/220M16			,R4449 ,R4462 ,I		
		,C4027 ,C4785 ,C4787 ,C4789			R4706	,R4770 ,R4783 ,F	R4809 ,R4811	RS1/16S0R0J
		,C4812 ,C4814 ,C4819	CEV220M16		D 4000	D6496		DC4/46C0D0 I
	C4226	,0.0.2,0.0,0.0.0	CEV220M6R3		R4829 R4394	,R6186		RS1/16S0R0J RS1/16S1002D
	C4219	,C4711	CEV2R2M50			,R4795 ,R4827		RS1/16S1002D
						,R3813 ,R3815 ,I	R3817 .R3831	
		,C3804 ,C3806 ,C3807 ,C3809				,R3837 -R3844 ,l		
		,C3819 ,C4002 ,C4029 ,C4031						
		,C4082 ,C4085 ,C4227 ,C4436			R3858	,R3864 -R3876 ,	R3880 -R3888	RS1/16S101J
		,C4450 ,C4459 ,C4460 ,C4476				-R3896 ,R3900 -		
	C3824	,C4093 ,C4701 ,C4777	CEV470M6R3			-R3925 ,R3927 ,l	·	
	C4705	,C4707 ,C4744	CEV4R7M35			,R3943 ,R3945 ,I		
	C3813	,04707 ,04744	CEVNP1R0M50		R4009	,R4014 ,R4019 ,I	R4020 ,R4023	RS1/16S101J
	C4210	.C4211	CEVNP2R2M35		D4020	,R4030 ,R4033 ,I	24030	RS1/16S101J
	C4208		CEVNPR33M50			-R4048 ,R4058 ,I		RS1/16S101J
	C3814		CEVR10M50			-R4069 ,R4073 ,I		RS1/16S101J
						,R4084 ,R4086 ,I		
	C4201	,C4202	CEVR33M50		R4099	,R4109 ,R4114 ,F	R4115	RS1/16S101J
	C4217	C4402 C4444 C4440 C4467	CEVR47M50					
		,C4403 ,C4411 ,C4419 ,C4467 ,C4073 ,C4232 ,C4423	CKSQYB102K50			,R4118 ,R4120 ,F		
	C3811	,04073 ,04232 ,04423	CKSQYB102K50			-R4131 ,R4133 -		RS1/16S101J
	00011		Chedibioche			-R4141 ,R4144 ,I		
	C4418		CKSQYB152K50			,R4152 -R4155 , R4205 ,R4239 ,I		RS1/16S101J
	C4463	-C4466	CKSQYB224K16		114202	,114200 ,114209 ,1	14240	1001/1001010
	C4763		CKSQYB272K50		R4242	,R4243 ,R4245 ,I	R4254 .R4256	RS1/16S101J
	C3810		CKSQYB472K50			,R4269 ,R4274 ,I	,	
	C3812	,C3815	CKSQYB561K50		R4299	-R4301 ,R4341 ,l	R4342	RS1/16S101J
	C4000		CKCOMBOOKEO			R4353 ,R4359 ,l		
	C4060	,C3825 ,C3828 ,C4094 ,C4095	CKSQYB822K50		R4376	,R4380 ,R4386 ,I	R4408 -R4410	RS1/16S101J
		,C3825 ,C3828 ,C4094 ,C4095 ,C4215 ,C4218 ,C4242	CKSQYF103Z50		D 4445	D4400 D4400 I	24405	D04/4004044
		-C4409 ,C4412 ,C4414 ,C4416				,R4420 ,R4422 ,I		RS1/16S101J
		,C4422 ,C4448 ,C4475 ,C4708				, R4430 ,R4439, ,R4453 ,R4461 ,I		
		, - , , , , ,				,R4513 ,R4514 ,I		
	C4710	,C4743 ,C4764 ,C4806 ,C4820	CKSQYF103Z50			,R4538 ,R4543 ,I		RS1/16S101J
		,C4001 ,C4003 ,C4004	CKSQYF104Z50			,,.		
		-C4014 ,C4016 ,C4024 ,C4026			R4548	,R4549 ,R4554 ,I	R4564 -R4575	RS1/16S101J
		,C4030 ,C4032 -C4036 ,C4038				,R4588 ,R4589 ,I		
	C4040	,C4042 -C4044 ,C4046 -C4057	CKSQYF104Z50			,R4713 ,R4719 ,I		RS1/16S101J
	C4050	C4062 C4065 C4060 C4070	CKSOVE104750			,R4804 ,R4813,		RS1/16S101J
		,C4063 ,C4065 ,C4068 ,C4070 ,C4090 ,C4709 ,C4714 ,C4716			R3937	,R4071 ,R4072 ,I	R4074 ,R4076	RS1/16S102J
		,C4722 ,C4725 -C4729 ,C4716 ,C4722 ,C4725 -C4729 ,C4750			D 440=	D4470 D4470	D4000 D4046	D04/4004001
		C4756 ,C4759 ,C4766 -C4770,				,R4170 ,R4172 ,I		
		C4784 ,C4786 ,C4788 ,C4790,				,R4257 ,R4277 ,I ,R4405 ,R4414 ,I		
		, , , , , , , , , , , , , , , , , , , ,				,R4530 ,R4594 ,I		
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 1000 ,114007	

Mark	No.	Desc	ription	Part No.	Mark	No.	Description	1	Part No.
	R4707	,R4708	,R4729 ,R4792 ,R4832	RS1/16S102J		R4241	,R4244 ,R4275	,R4298 ,R4337	RS1/16S222J
	R4837			RS1/16S102J		R4360	R4365 R4369	,R4375 ,R4379	RS1/16S222.I
		R3820	,R3823 ,R4078 ,R4079					,R4496 ,R4512	
			R4092 ,R4093 ,R4156				,R4580 ,R4586		RS1/16S222J
			,R4175 ,R4176	RS1/16S103J			-R4751	,114000	RS1/16S222J
			,R4209 ,R4253	RS1/16S103J				,R4013 ,R4128	
			•						
			,R4348 -R4350 ,R4364					,R4232 ,R4237	
			-R4383 ,R4385	RS1/16S103J				,R4309 ,R4317	
			,R4423 ,R4440 ,R4455				,R4325 ,R4356		RS1/16S223J
			,R4475 ,R4551 ,R4555					,R4624 ,R4833	
	R4578	,R4579	,R4611 -R4616	RS1/16S103J		R4007	,R4230		RS1/16S224J
	R4621	,R4622	,R4794 ,R4801 ,R4834	RS1/16S103J		R4292	,R4714 ,R4720	,R4774	RS1/16S241J
	R4836			RS1/16S103J		R4332	,R4479 ,R4710	,R4716	RS1/16S242J
	R3809	-R3812	R3814, R3816, R3845,	RS1/16S104J		R4061	,R4108 ,R4335		RS1/16S243J
	R4143	,R4226	,R4494 ,R4765	RS1/16S104J		R3828	,R3938 ,R3939	,R4041 ,R4042	RS1/16S272J
	R4229			RS1/16S105J		R4080	,R4231 ,R4233	,R4772 ,R4788	RS1/16S272J
	R4016	,R4050		RS1/16S111J		R4441	,R4603 ,R4609		RS1/16S273J
	R4354			RS1/16S112J		R4285	,R4504		RS1/16S301J
	R4789			RS1/16S121J		R4435	,R4503 ,R4601		RS1/16S331J
	R3804	,R3832	R3833 ,R3914 ,R4066	RS1/16S122J		R3931	,R4052 ,R4053	,R4174	RS1/16S332J
	R4283	,R4284	,R4291 ,R4340 ,R4476	RS1/16S122J		R4270	,R4271 ,R4304	,R4545	RS1/16S332J
	R4478	,R4482	,R4550	RS1/16S122J		R3847	,R4418 ,R4419	,R4488 -R4490	RS1/16S333J
			,R3819 ,R3935 ,R3941	RS1/16S123J			,R4791	•	RS1/16S333J
			,R4459 ,R4517	RS1/16S123J		R4225	,		RS1/16S362J
	R4769	,	,,	RS1/16S124J			,R4600		RS1/16S391J
	R4591	,R4592		RS1/16S132J			•	,R4044 ,R4096	
	R4217			RS1/16S133J		R4101	,R4250 ,R4387	,R4388 ,R4495	RS1/16S392J
	R4522			RS1/16S1502D		R4064	,R4224 ,R4436	,R4831 ,R4835	RS1/16S393J
	R4004	.R4485		RS1/16S151J		R4276			RS1/16S394J
	R3822	,R3861	R4018, R3926, R4008,	RS1/16S152J		R4104	,R4113 ,R4502		RS1/16S431J
			,R4136 ,R4145 ,R4148				,R4085 ,R4119	,R4457	RS1/16S432J
	R4151	,R4412	,R4421 ,R4544 ,R4547	RS1/16S152J		R4107	,R4602 ,R4608		RS1/16S433J
	R4556	,R4771		RS1/16S152J		R3877	-R3879 ,R3889	,R3897 -R3899	RS1/16S470J
	R3802	R3806	R3808 ,R3818 ,R4063	RS1/16S153J		R4505	,R4507 ,R4542	,R4581 ,R4583	RS1/16S470J
	R4212	,R4267	,R4357 ,R4363 ,R4374	RS1/16S153J			,R4100 ,R4111		RS1/16S471J
			,R4398 ,R4446 ,R4447				,R4515 ,R4617		RS1/16S471J
	R4525	,R4552	,R4557 -R4560	RS1/16S153J		R3848	,R3916 ,R4054	,R4056 ,R4059	RS1/16S472J
	R4456			RS1/16S154J		R4070	,R4090 ,R4094	,R4303	RS1/16S472J
	R4003	,R4021	,R4031	RS1/16S162J		R4314	,R4315 ,R4322	,R4323 ,R4329	RS1/16S472J
	R4251			RS1/16S163J		R4384	,R4397 ,R4454	,R4727 ,R4766	RS1/16S472J
	R3862	,R4006	R4028 ,R4038 ,R4110,	RS1/16S182J			,R4812 ,R4814		RS1/16S472J
	R4126	,R4280	,R4287 ,R4402 ,R4411	RS1/16S182J		R3821	,R4166 ,R4168	,R4236 ,R4450	RS1/16S473J
	R4500	,R4524	,R4527 ,R4529 ,R4531	RS1/16S182J		R4620	,R4623 ,R4625		RS1/16S473J
	R4533	R4703		RS1/16S182J		R4223			RS1/16S474J
	R3850	,R4055	,R4057 ,R4214	RS1/16S183J		R4796	,R4798 ,R4807		RS1/16S510J
		,R4221	•	RS1/16S183J			,R4333 ,R4334	,R4339	RS1/16S511J
	R4407			RS1/16S201J		R4312			RS1/16S512J
	R4105			RS1/16S202J		R4213			RS1/16S513J
		,R4451	,R4452 ,R4481	RS1/16S203J		R3933			RS1/16S5601D
			,R4711 ,R4712	RS1/16S221J			,R4499		RS1/16S560J
			,R4723 ,R4773 ,R4790				•	,R4022 ,R4032	
	R4803			RS1/16S221J		R4290	,R4366 ,R4390	,R4403 ,R4484	RS1/16S561J
		,R3857	R3859 ,R3860 ,R3863					,R4177 ,R4178	
			,R4011 ,R4024 ,R4034					,R4328 ,R4367	
			R4106 ,R4112 ,R4116				,R4702 ,R4709		RS1/16S562J
		:	, ,						-

Mark	No.	Description	Part No.	Mark	No.	Descript	ion	Part No.
	R3846	,R4437 ,R4492	RS1/16S563J		Q308	,Q601		2SC3332
	R4252		RS1/16S564J		Q609			2SC3468
	R4806		RS1/16S620J	\triangle		,Q754		2SC4686A
		,R4605	RS1/16S621J		Q809			2SC4793
	R4326	,,	RS1/16S622J	\triangle	Q612			2SC5043
		,R4327 ,R4491	RS1/16S623J	<u> </u>	Q309			2SC5046
	111010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1101/1000200	7:3		,Q613		2SC5197
	R4523		RS1/16S6801D		Q610	•		2SD1276A
	R4501		RS1/16S680J			,D304 ,D601		10DF2
		,R4149 ,R4247 ,R4302 ,R4373				-D314 ,D320	D322 D323	1SS254
		,R4604 ,R4606 ,R4610	RS1/16S681J			,D343 ,D603		1SS254
		,R4722 ,R4724 ,R4725	RS1/16S681J		D0-12	,5040 ,5000	,5000 ,5000	100204
	117721	,114722 ,114724 ,114720	1101/1000010		D611	,D614 -D618	D621 D625	1SS254
	R4060	,R4210 ,R4218 ,R4234 ,R4266	RS1/16S682.I			-D757	,0021,0020	1SS254
		,R4321 ,R4458 ,R4473	RS1/16S682J	\triangle		,D623		2NU41
		,R4786 ,R4800	RS1/16S682J	<u> </u>	D321	,0020		BR3371XJ30A
		,R4511	RS1/16S683J	\triangle	D318			DD52RC
		,R4799 ,R4808	RS1/16S750J	7:17	D310			DDOZINO
	114131	,1147 99 ,114000	131/103/303		D338	,D329 ,D610		ERA22 -02
	D/211	,R4310 ,R4424	RS1/16S752J		D613			ERB06 -15
	R4319	,14510 ,14424	RS1/16S753J			,D602		ERB93 -0203
	R4062	,R4017 ,R4049 ,R4051 ,R4506	RS1/16S754J	\triangle		,D317		ERD07 -15
					D00 I	,D802		MTZJ39
	K3835	,R4025 ,R4026 ,R4035 ,R4036	K51/165821J		DOAE	D007 D004	DC07	DD40ECD
	D 4000	D4004 D4404	DC4/400004 I			,D327 ,D604	-D607	RD12ESB
		,R4331 ,R4401	RS1/16S821J		D319			RD5.1EB
		,R4318 ,R4336 ,R4460 ,R4480			D624			RD5.1ESB1
		,R4768	RS1/16S822J		D612			RD7.5ESB2
	R4288	D0040	RS1/16S911J		D627			RD9.1ESB1
	R3936	,R3940	RS1/16S912J		Dooo	Door		050000
	D 4 400		DC4/00074 I			-D806		S5688G
	R4498		RS1/2S271J	COIL	S AN	ID FILTER	S	
	R4497		RS1/2S331J		SG75	51		AEX1024
	VR420		VRTS6VS102		L307	,L308		ATH -059
	VR380		VRTS6VS222	ΧA	T601			
	VR420	2	VRTS6VS472	\triangle	T301			ATK1126
				\triangle	T302	,T602		ATK1127
	VR400		VRTS6VS474					
		Resistors	RD1/4PU□□□J	\triangle	L604			ATL1138
OTHE	ERS				L303	-L306,L309,	L601 -L603	ATX1008
	CN380	1 ,CN3802 PLUG 44 -P	AKM1155		L310	,L605		LTA152J
	K4001 -K40	03 ,K4201 -K4203 TEST PIN	AKX9002	CAP	ACITO)RS		
	K4401 -K44	04 ,K4701 -K4706	AKX9002	\triangle	C325		(100pF/2000V)	ACG -032
	X4701	CRYSTAL RESONATOR(12MHz)	ASS1133	2-3		,C755	(4700pF/2000V)	ACG1028
					C636		(1µF/160V)	ACH -372
5	DEF	LECTION SERVICE	ASSY	\triangle		,C604	(10µF/160V)	ACH1117
CEMI				2		,C335 ,C358	` ' '	CCCSL101J50
SEIVII		UCTORS				, ,	, ,	
	IC303,	IC601	NJM4558DXP		C336	,C612		CCCSL101K2H
	IC302		PQ30RV11(A)			-C822		CCCSL220J50
\triangle	IC301		TA8638N		C815			CCCSL221J50
		Q316 ,Q604 ,Q605 ,Q804	2SA1145			,C342		CCCSL470J50
	Q806		2SA1145		C304	•		CEANP2R2M50
					0004			OL/WW ZIVZWOO
	Q808		2SA1837		C806	,C807		CEAT101M25
		Q306 ,Q311 ,Q313 ,Q319	2SA933S		C817	•		CEAT470M50
		Q322 ,Q325 ,Q326	2SA933S		C334			CEHAQ1R0M2C
X	Q607,					,C616		CEHAT100M2D
	Q607,	Q608 ,Q611 ,Q751 ,Q801	2SA933S			,C621 ,C752		CEHAT100M50
					0013	,0021 ,0732		CETIAI TOOMSO
	Q301,	Q303 -Q305 ,Q307 ,Q310	2SC1740S		C308	,C337 ,C346	C340	CEHAT101M25
		Q318 ,Q320 ,Q327 ,Q602	2SC1740S			,C357 ,C346 ,C355 ,C608	•	CEHAT101M25 CEHAT101M25
	Q614,	Q752 ,Q802	2SC1740S			,C355 ,C608	,0000	
	Q314,	Q317 ,Q603 ,Q606 ,Q803	2SC2705		C359			CEHAT101M50
	Q805,		2SC2705					CEHAT102M35
						,C633		CEHAT1R0M50
					U020	,C809 ,C818		CEHAT220M2D

Mark	No. De	escript	ion	Part No.	Mark	No.	Descr	iption	Part No.
	C635			CEHAT220M50		R617			RD1/2PM563J
	C618			CEHAT220M63	\triangle	R395,	R634		RD1/4LMF100J
	C328 ,C624	1.C625		CEHAT221M25		R635			RD1/4MUF100J
	C332 ,C613			CEHAT330M35		R827 ,	R828		RD1/4MUF560J
	C313 ,C344			CEHAT331M16		,			112 17 111101 0000
		-			\triangle	R630			RN1/2PC3902F
	C810			CEHAT3R3M2C	\triangle	R629			RN1/2PC4302F
	C310 ,C623	.C751		CEHAT470M25	_	R328			RN1/4PC1002F
	C351 ,C352		.C361	CEHAT471M16			R646 ,R6	50	RN1/4PC1003F
	C634	,	,	CEHAT4R7M2E		R371	•		RN1/4PC1102F
	C309, C341	C343, I		CEHAT4R7M50					
						R370,	R419 ,R6	39 ,R782	RN1/4PC1202F
\triangle	C601,C602	2		CFPHW222H3D		R318			RN1/4PC1203F
\triangle	C320			CFPHW332H3D		R302			RN1/4PC1303F
\triangle	C321			CFPHW472H3D		R372			RN1/4PC1503F
\triangle	C319 ,C322	2		CFPMW334J2G		R783			RN1/4PC1801F
	C323 ,C603	3		CFTXA105J50					
						R753			RN1/4PC2202F
	C312			CFTXA224J50		R388			RN1/4PC2203F
	C329			CFTXA683J50		R327			RN1/4PC2702F
	C311			CKCYB102K50		R386,	R752		RN1/4PC3302F
	C303			CKCYB103K50		R387			RN1/4PC3901F
	C607			CKCYB222K50					
						R755			RN1/4PC4701F
	C628			CKCYB332K2H		R754			RN1/4PC56R0F
	C327 ,C611			CKCYB561K50			R421 ,R6	40	RN1/4PC6801F
	C627			CKCYB682K50		R644			RN1/4PC7502F
	C637 ,C814	4 ,C819		CKCYE103P2H		R301,	R647		RN1/4PC8201F
	C615			CKCYE222P2H					50.11.11.15.00.1
				01/01/5100550		R338 ,			RS1MMF100J
			,C338 -C340	CKCYF103Z50		R809,	R810		RS1MMF472J
			,C350 ,C356	CKCYF103Z50		R355			RS2MMF180J
			,C617 ,C622	CKCYF103Z50				R602 ,R603, 9	RS2MMF1R0J
			,C753 ,C801	CKCYF103Z50		R621,	R622		RS2MMF1R8J
	C803 ,C808	3		CKCYF103Z50		Dooo	D004		DOOM NEOOO I
	0004 0005	- 0040		01/01/5470750		R333,			RS2MMF222J
	C804 ,C805	,0816		CKCYF473Z50		R819 -			RS2MMF271J
	C813 C307			CQMA104K2E CQMA471J50		R358,			RS2MMF2R2J
		,				R658,	K009		RS2MMF820J RS2MMFR56J
	C811 ,C812 C302	2		CQMA472K2E CQMA561J50		R660			K32IVIIVIFK30J
	0302			CQIVIASO 1330	Х	R637 -	R640		
	C305			CQMA682J50	X	R642 -			
	C301			CQPA102J2A	Α		R825 ,R8	31	RS3LMF471J
	C314			CQPA333J2A	\triangle	R392			RT5PZ561K
	C306			CQPA821J2A	X	VR601			
RESI	STORS								
	R769		(3.3kΩ ,1/2W)	ACN1011	x	VR602			
	R661		$(27\Omega, 1/2W)$	ACN1136		VR301			VRTHS6VS222
	R826		(2732,1/200)	RD1/2MMF100J		VR602	,VR603		VRTHS6VS223
	R815			RD1/2MMF332J		VR303			VRTB6VS223
	R770 ,R772	-R776		RD1/2PM114J		VR302	?		VRTHS6VS473
	11.70 ,11.72	- 11770		110 1/21 1011 10					
	R631			RD1/2PM122J			Resistors		RD1/4PU□□□J
	R365			RD1/2PM153J	OTH	ERS			
	R648			RD1/2PM154J		J602		H.V.RETURN WIRE	ADX2486
	R771 ,R777	7 -R781		RD1/2PM184J		J601		1P READ WIRE	ADX2492
	R366, R618	R649, 8		RD1/2PM223J		301 ,3	601, 809	ISOLATION SHEET	AEB1358
						602	•	NYLON BINDER	AEC -093
	R757 -R768	3		RD1/2PM224J	\triangle	CN301	-CN303	PLUG 3 -P	AKM1055
	R813 ,R814	1		RD1/2PM270J					
	R801			RD1/2PM272J		CN751		PLUG 3 -P	AKM1055
	R823 ,R824	1		RD1/2PM2R2J		107		SHIELD CASE	ANK1510
	R628			RD1/2PM333J		305 ,6	607	SCREW	BBZ30P080FCU
						CN304		PLUG 12 -P	KM250MA12
	R651			RD1/2PM334J		CN305	5	PLUG 12 -P	KM250MA13

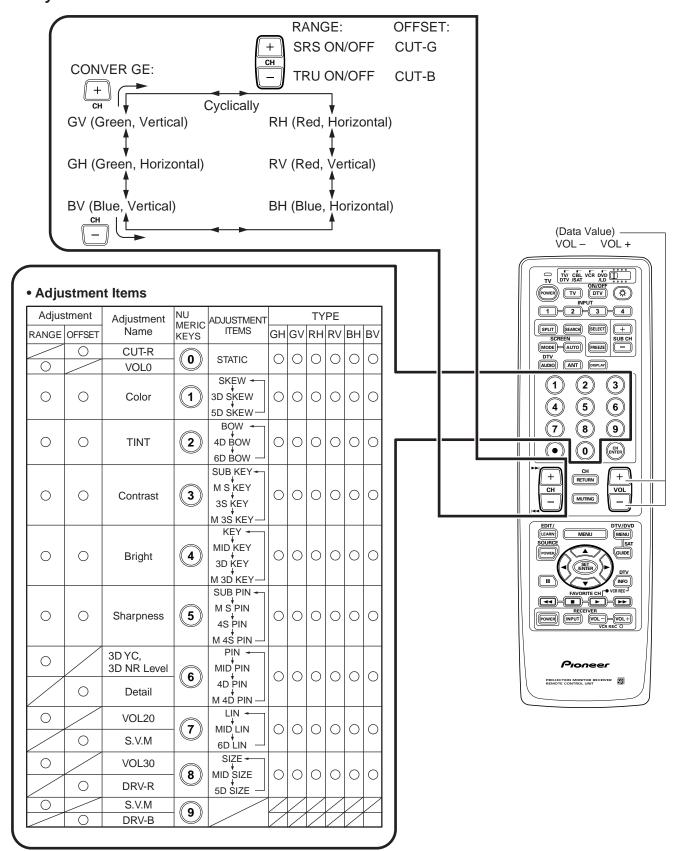
Mark	No.	Descript	tion	Part No.	Mark	No.	Desc	cription	Part No.
	CN309	P	LUG 4 -P	KM250MA4	CAP	CIT	npe		
	CN307		LUG 5 -P	KM250MA5	CAF				1001001
	CN308		LUG 6 -P	KM250MA6		C515			ACG1001
	CN306		LUG 6 -P	KM250MA6R			7 ,C5164	•	ACH1318
	CN801		LUG 9 -P	KM250MA9		C515			CCCSL120J50
	011001		20001	TAMESONII AS		C515			CCCSL560J50
	304 ,60	5 S	CREW	PMB30P160FZK		C515	02		CCCSL7R0D50
			,802 SCREW	PMZ30P100FZK		0540	20		OF AT4.04 MOF
	608		CREW	VPZ40P120FMC		C516			CEAT101M25
		Ū	0.1211			C515			CEAT222M16 CKCYE103P2H
IP	P C	ופח דכ	VE ASSY				31 ,C5163 34 ,C5156		CKCYF103Z50
					RESI			1	CKC11103230
SEMI		JCTORS			KESI				1014400
	IC5101			TDA6120Q		R516			ACN1129
	Q5101	_		2SC1740S		R516			ACN1131
	D5101 -		_	S5688G		R516			ACN1133 RD1/2LMF100J
COIL	S AND	FILTER	S			R515			RS1MMF270J
	SG5101	,SG5102	SPARK GAP	AEX1024		None)		KS HVIIVIF 27 03
	L5102			LAU2R2J		D516	S1 -R5163	1	RS3LMF822J
	L5101			LAU3R3J		VR5		•	VRTHS6VS222
	L5103			LTA562J			r Resistor	·s	RD1/4PU□□□J
CAPA	ACITOR	RS			OTH				ND II II CLLLO
	C5108		(1000pF/2000V)	ACG1001	OIIII	_I \ 3 J515	2	4D LIQUEING WIDE	ADV2402
	C5107,	C5114	(22µF/250V)	ACH1318		5154	_	4P HOUSING WIRE CRT SOCKET	ADX2493 AKG1005
	C5103			CCCSL120J50			-5158	SCREW	BBZ30P080FCU
	C5101			CCCSL390J50		5153		SCREW	BPZ30P100FZK
	C5102			CCCSL7R0D50		CN5		PLUG 3 -P	KM250MA3
						ONO	100	1 200 3 1	RIVIZOUVIAO
	C5110			CEAT101M25		CN5	157	PLUG 3 -P	KM250MA3B
	C5109			CEAT222M16		CN5		PLUG 5 -P	KM250MA5
	C5111,			CKCYE103P2H			,5152	SCREW	PMB30P160FZK
	C5104,			CKCYF103Z50	Б		,		
RESI	STORS	5			R	B (CRT [DRIVE ASSY	
	R5115		(47Ω ,1/2W)	ACN1129			_		
	R5116		(220Ω ,1/2W)	ACN1131	SEIVI		DUCTO	DRS	
	R5118		(470Ω ,1/2W)	ACN1133		IC52			TDA6120Q
	R5117			RD1/2LMF100J		Q520			2SC1740S
	R5101			RS1MMF270J)1 -D5206		S5688G
	DE440	DE444		DCOLMEGGO I	COIL		ND FIL		
	R5112 - VR5101			RS3LMF822J VRTHS6VS222			201 ,SG5	202	AEX1024
		esistors		RD1/4PU□□□J		L520			LAU1R0J
ОТНЕ		62121012		RD1/4FULLLIJ		L520			LAU4R7J
ОТП			007.000//57	11/04005		L520			LTA562J
	5104	400	CRT SOCKET	AKG1005	CAP				
	5104 -5	108	SCREW	BBZ30P080FCU		C520			ACG1001
	5103 CN5105		SCREW PLUG 3 -P	BPZ30P100FZK KM250MA3			°,C5214, 7		ACH1318
	CN5106		PLUG 3 -P	KM250MA3R)1 -C5203	}	CCCSL220J50
	CNSTOC)	FL0G 3 -F	KIVIZOUVIASK		C521			CEAT101M25
	CN5102)	PLUG 5 -P	KM250MA5B		C520)9		CEAT222M16
	CN5101		PLUG 5 -P	KM250MA5R		0504	4 05040		OKOVE 400 DOLL
	5101,5		SCREW	PMB30P160FZK			1 ,C5213		CKCYE103P2H
	0.0.,0		00.1211	2001 1001 211	DEOL		04 ,C5206	1	CKCYF103Z50
Q	G C	ואט דא	VE ASSY		RESI				
						R521		$(47\Omega, 1/2W)$	ACN1129
SEMI		JCTORS				R521		(220Ω ,1/2W)	ACN1131
	IC5151			TDA6120Q		R521		$(470\Omega, 1/2W)$	ACN1133
	Q5151			2SC1740S		R521			RD1/2LMF100J
	D5151 -			S5688G		R520	JΊ		RS1MMF270J
COIL	S AND	FILTER	lS .			DEO	4 DE040		DC3LME933.1
	SG5151	,SG5152		AEX1024		VR52	1 -R5213	•	RS3LMF822J VRTHS6VS222
	L5152			LAU2R2J			201 r Resistor	·c	RD1/4PU□□□J
	L5151			LAU3R3J		Cuie	. 1.0313101	•	1101/41 00000
	L5153			LTA562J					

Part No.

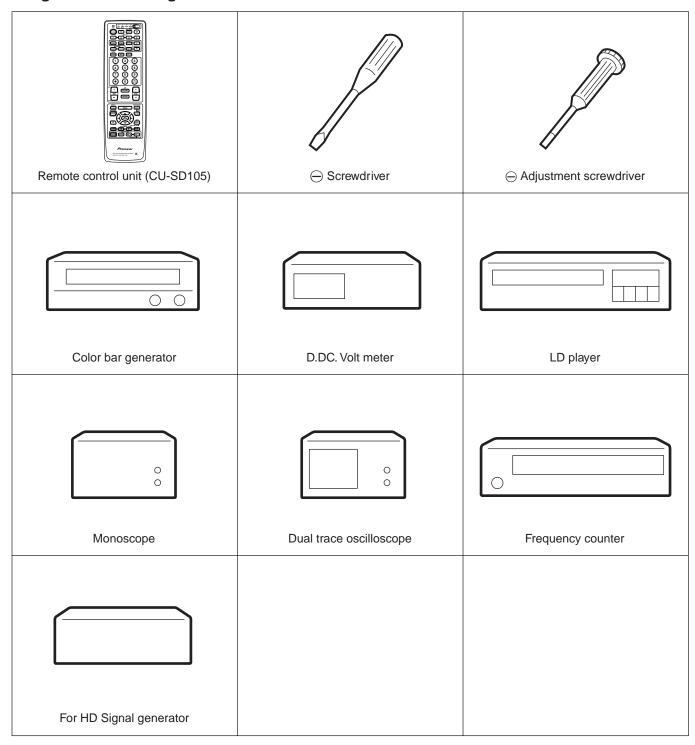
Mark	No. Des	cription	Part No.	Mark No.	Description	Pai
отн	ERS			TV FRON	T END SYSTEM	UNIT
	J5203	4P HOUSING WIRE	ADX2493		vice parts.	
	5204	CRT SOCKET	AKG1005			
	5204 -5208	SCREW	BBZ30P080FCU	RF SW		
	5203	SCREW	BPZ30P100FZK			
	CN5206	PLUG 3 -P	KM250MA3	No ser	vice parts.	
	CN5207	PLUG 3 -P	KM250MA3B			
	CN5201	PLUG 5 -P	KM250MA5B			
	5201 ,5202	SCREW	PMB30P160FZK			
0	AC IN A	SSY				
EΜ	ICONDUCTO	ORS				
	IC101, IC102		PC817CD			
	Q105		2SA933S			
	Q101 -Q104,	Q106	2SC1740S			
	D107 -D110 ,	D112 -D117	1SS254			
	D119 -D123		1SS254			
	D118		BR3371XJ30A			
	D101,D102		D5SBA60(B)			
	D111		HZS6B1L			
	D103 -D106		S5688G			
OIL	S AND FIL	TERS				
\triangle	L101 -L104		ATF1183			
RA	NSFORMER	S				
\triangle	T101 P0	OWER TRANSFORMER	R ATT1281			
WI	TCHES AND					
	RY103 ,RY10		ASR1049			
	RY101 ,RY10	2	ASR1050			
CAP	ACITORS					
\triangle	C101 -C104	(0.22µF/250V)	ACE1107			
	C105 -C112	$(0.01 \mu F/250 V)$	ACG -501			
	C119		CEHAT100M50			
	C113		CEHAT102M16			
	C115 -C118 ,0	C120	CEHAT470M25			
EC	C114 ISTORS		CKCYB103K50			
LJ	R102 ,R104	(2.2Ω ,5W)	ACN1128			
	R105	(2.232,300)	BCN1022			
	R106 ,R107		RD1/4MUF222J			
	R101 ,R103		RT5PZ1R8K			
	Other Resisto	re	RD1/4PU□□□J			
тн	ERS	15	ND1/41 OLLLI			
	J101	10P HOUSING WIRE	ADX2488			
\triangle	FU104	(500mA ,125V)	AEK1010			
\triangle	FU103	(800mA ,125V)	AEK1011			
\triangle	FU101	(10A ,250V)	AEK1069			
Δ	FU102	(4A ,125V)	REK1082			
	CN104	PLUG 2 -P	AKM1127			
	CN103	PLUG 3 -P	AKM1128			
	CN101 ,CN10		AKM1156			
	H103 -H108	FUSE CLIP	AKR1003			
	H101 ,H102	FUSE HOLDER	AKR1007			
	8010	SCREW	BBZ30P100FZK			
	0010	JOINLYV	DD2001 1001 ZIX			

6. ADJUSTMENT

■ Key Indication of the Remote Control Unit

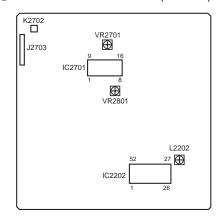


■ Jigs and Measuring Instruments

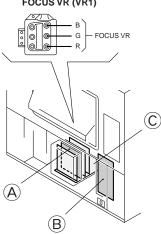


■ Assembly Adjustment Location and Items

A TUNER • u-COM ASSY (A SIDE)

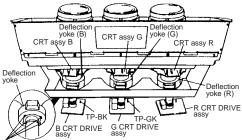


FOCUS VR (VR1)



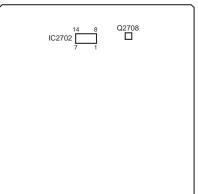
Lens assy (For Green) Lens assy (For Blue) (For Red)

Translucent paper such as tracing paper

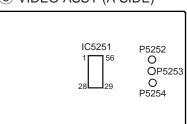


Centering magnet (Turn in either direction untill cross signal becomes white.)

TUNER • u-COM ASSY (B SIDE)



© VIDEO ASSY (A SIDE)



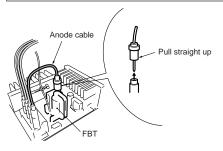
MEASURING METHOD

Disconnect the FBT anode cable as shown below. Measure at the point where the cable enters the FBT.

Caution: Take extra precaution when measuring the voltage. High voltage are also present in surrounding circuit boards. (CRT DRIVE assy, POWER SUPPLY assy).

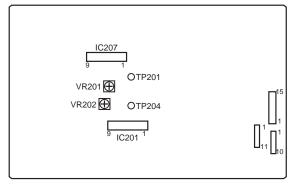
SERVICEMAN WARNING

Before removing the anode cable, turn off the power, unplug the AC plug and let the unit discharge for more than 1 minute.



When reconnecting the cable, proceed in the reverse order. After reconnecting, tug on the cable to check that it is secure.

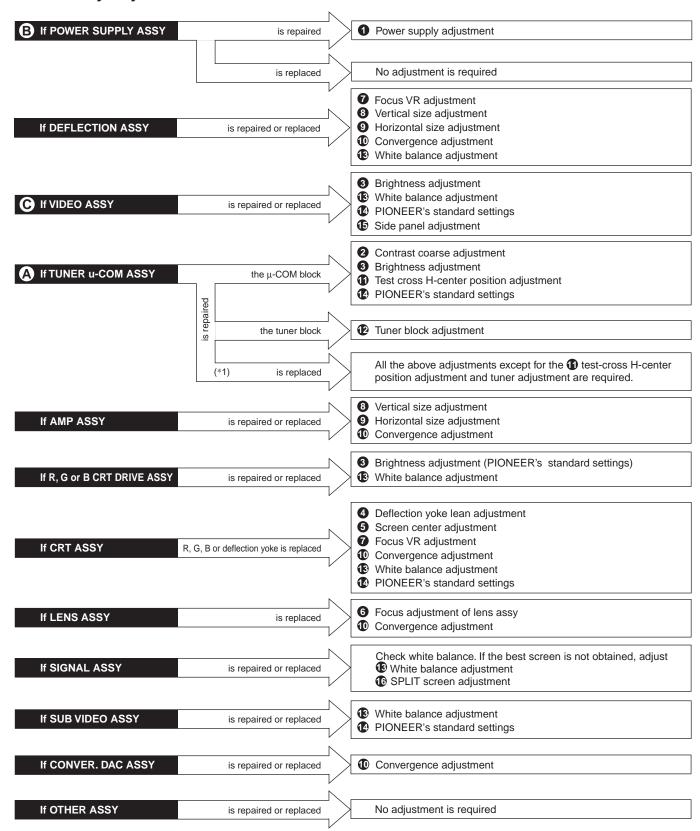
B POWER SUPPLY ASSY



- Power supply adjustment
- 2 Contrast coarse adjustment
- 3 Brightness adjustment (PIONEER's standard settings)
- 4 Deflection yoke lean adjustment
- 5 Screen center adjustment
- 6 Focus adjustment of lens assy
- Tocus VR adjustment
- 8 Vertical size adjustment
- Horizontal size adjustment
- 10 Convergence adjustment

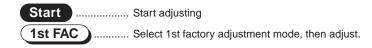
- Test cross H-center position adjustment
- 12 Tuner block adjustment
- (B) White balance adjustment
- PIONEER's standard settings
- **(**Screen size 4:3)
- 16 SPLIT screen adjustment

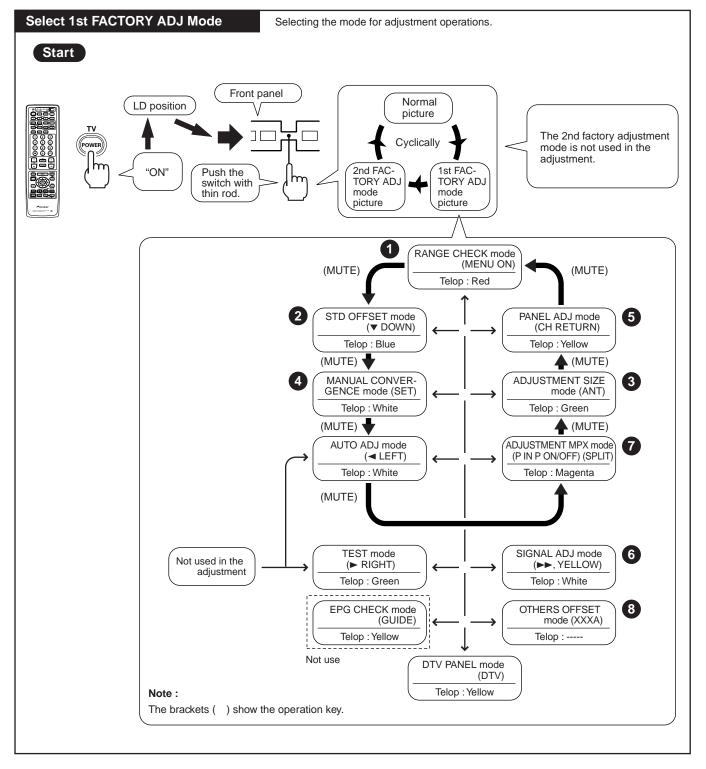
■ Assembly Adjustment Location Guide

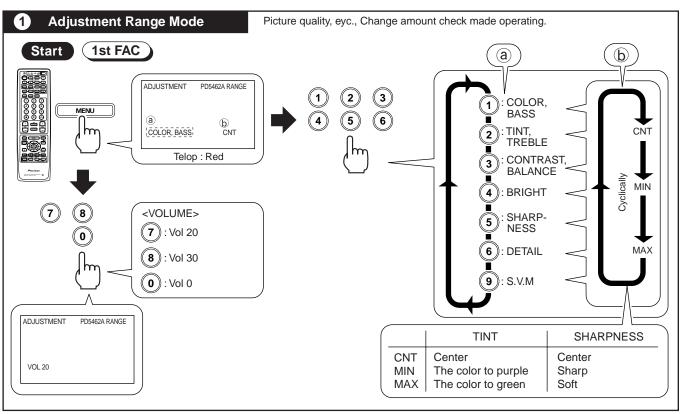


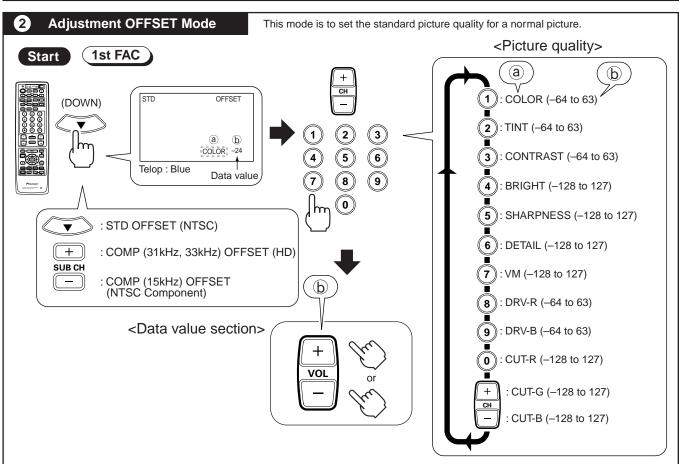
^(*1) When replacing the tuner u-com assembly, mount the IC2204 (24LC32A:E² PROM)on the current assembly to the new one to facilitate adjustments.

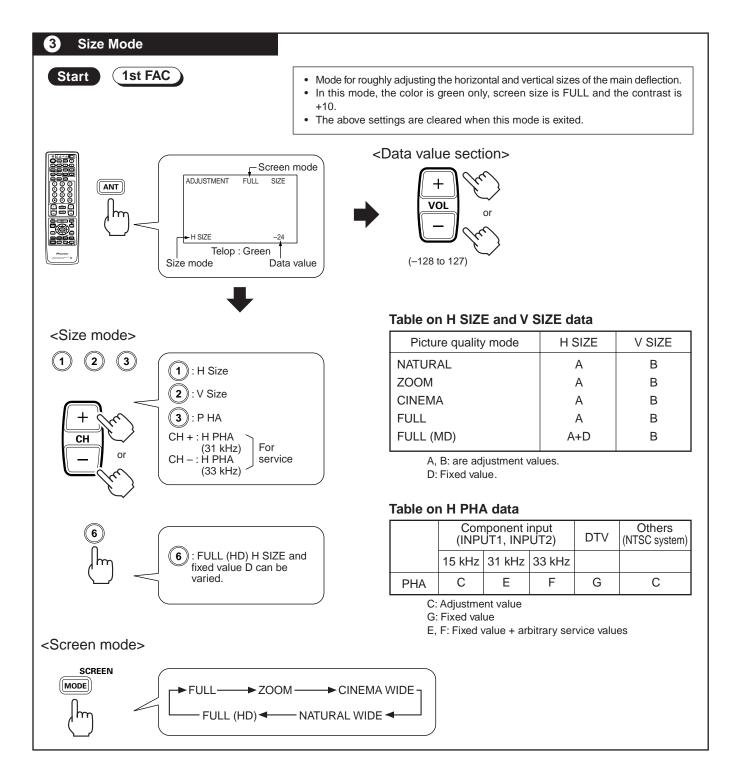
■ Factory ADJ Mode

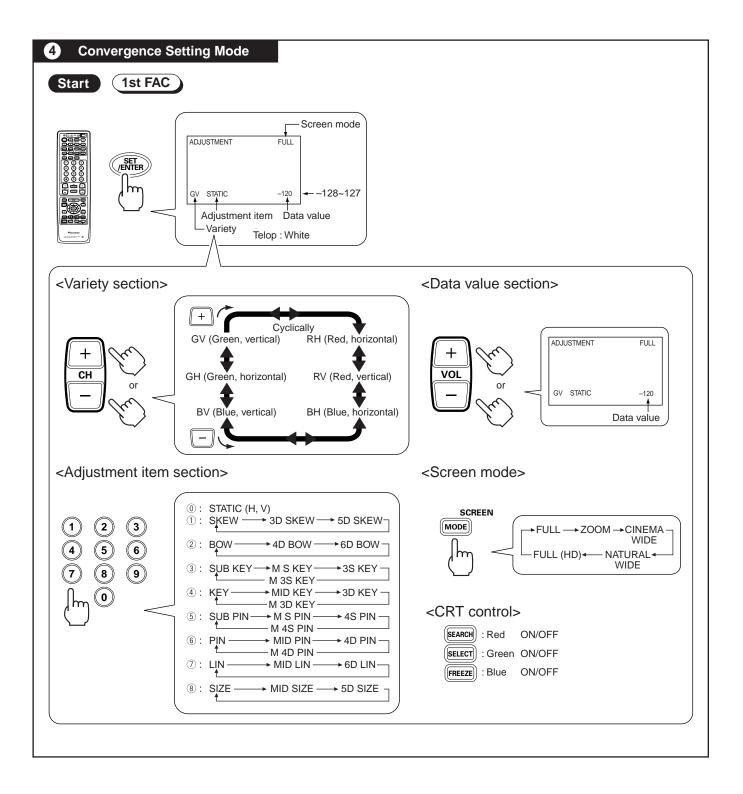


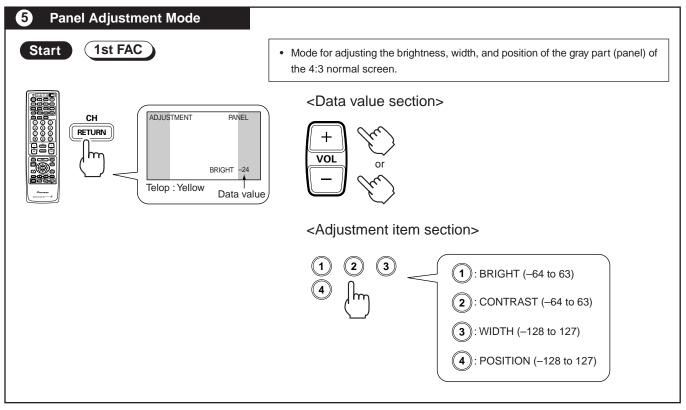


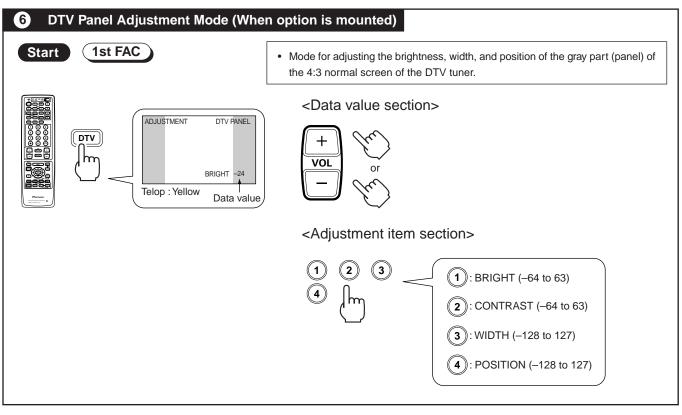


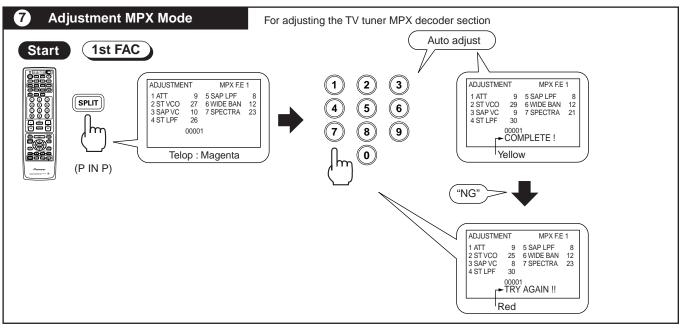


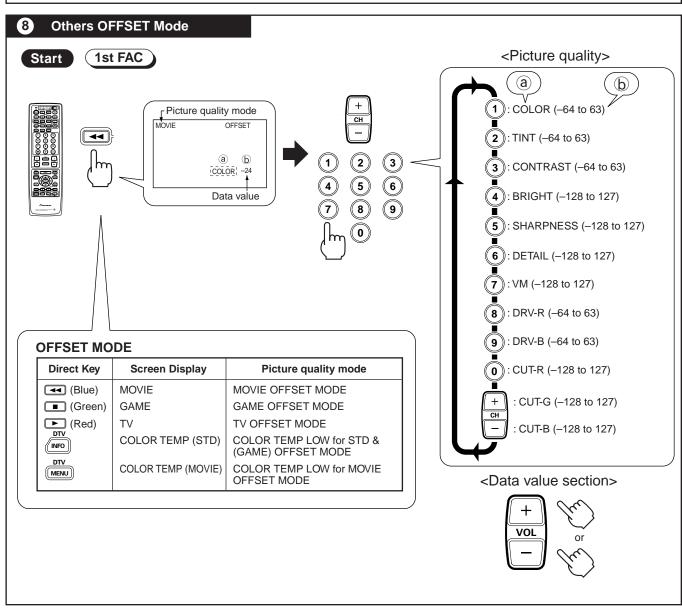




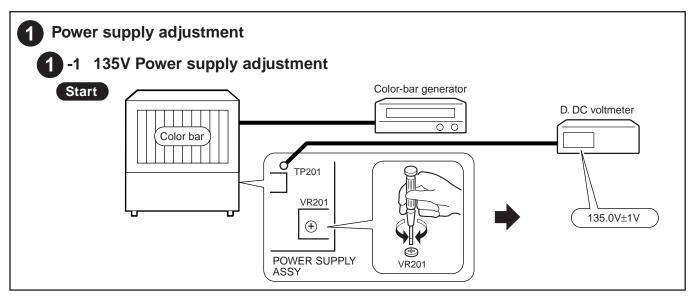


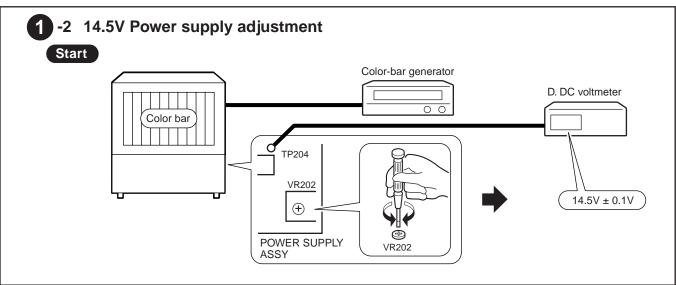


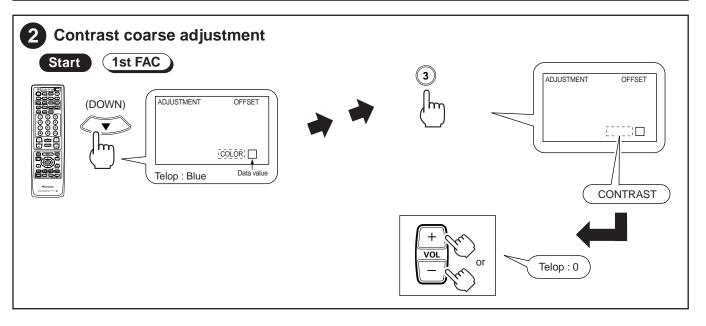


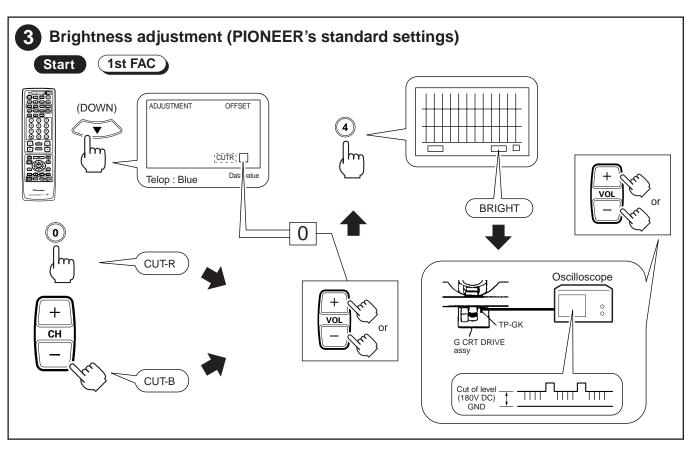


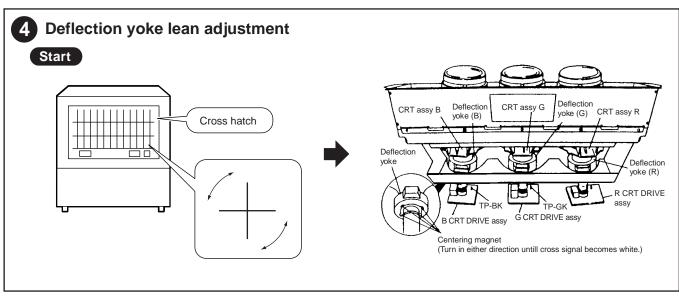
■ Adjustment

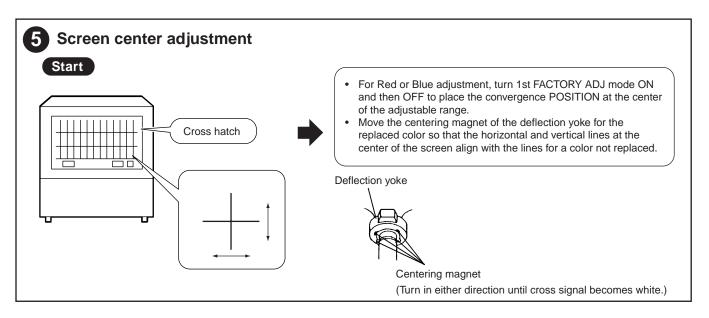


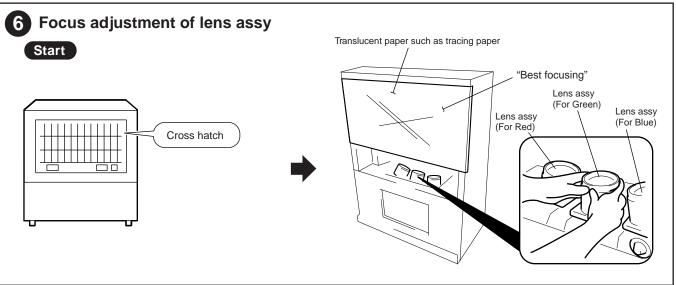


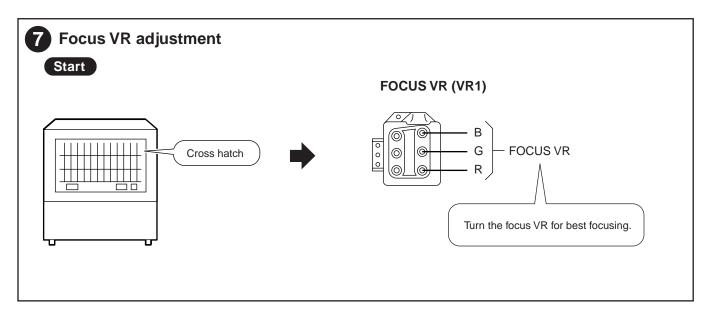


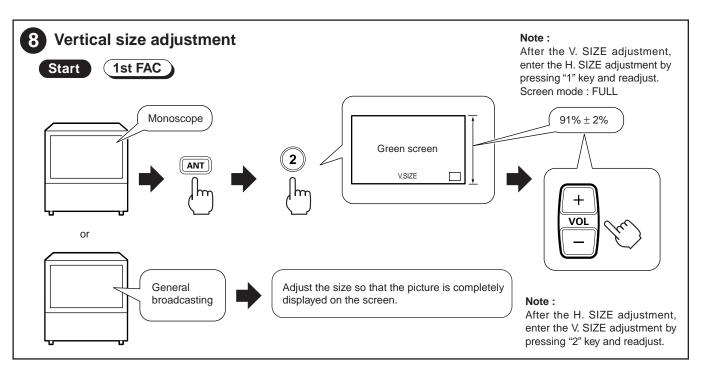


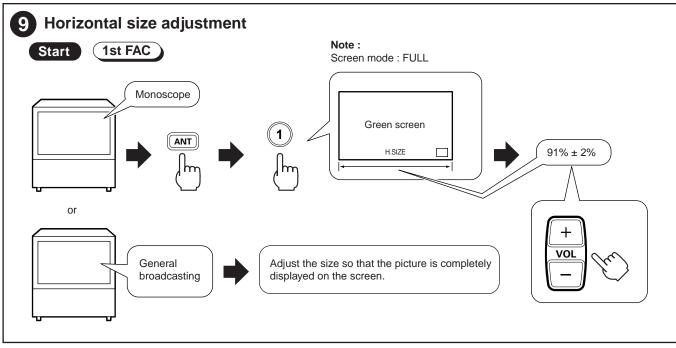












PRO-700HD

Convergence adjustment

(1) -1 Green line adjustment 1st FAC

• Adjustment in the horizontal direction

Start

Horizontal correction adjustment of the green line

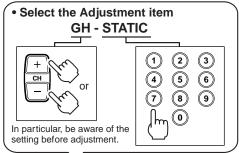
- See 4 Convergence Setting Mode in the Factory ADJ mode.
- · Input cross-hatch signals to this device's video input terminal.
- · The green line serves as the reference line in the adjustment of red and blue. Perform this accurately.

Adjust the convergence of the green line using only green.

Note:

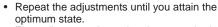
The convergence for this device must be adjusted for each screen size FULL (NTSC, 4:3 NORMAL), ZOOM (NTSC), CIN-EMA WIDE (NTSC), NATURAL WIDE (NTSC), FULL (HD) (33.75 kHz, DTV).

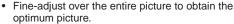


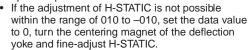


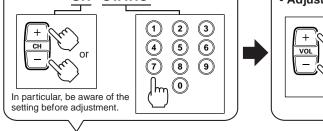
· Adjust the Data value

Note:









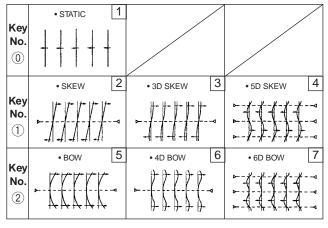
	Adjustment Items Screen No.				Adjustment Method
			1		
Ħ	1	GH	STATIC	1	Adjust the center vertical line to the screen center position.
Adjustment	2	GH	SKEW	2	Adjust so that the green vertical line at the center becomes a straight line with neither
	3	GH	BOW	5	distortion nor tilting.
	4	(GF	-3D SKEW)	3	
Center-line	5	(GF	-4D BOW)	6	Notes Do not adjust items 4 to 7
	6	(GF	-5D SKEW)	4	Note: Do not adjust items 4 to 7.
ပ	7	(GF	-6D BOW)	7	
			•		

ا خا	_	\	
Center-	6	(GH-5D SKEW)	4
ပြီ	7	(GH-6D BOW)	7
Ħ			
mer	1	GH-SIZE	8
Adjustment	2	GH-MID SIZE	9
	3	GH-LIN	11
rval	4	GH-MID LIN	12
Line-interval	5	(GH-5D SIZE)	10
ine-	6	(GH-6D LIN)	13

· Adjust so that the intervals of the green vertical lines in the right and left sections of the screen are symmetrical and correct.

Note: Do not adjust items 5 and 6.

■ Screen



• Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume \oplus key. Changes are opposite to the arrow when the Volume \ominus key is used.

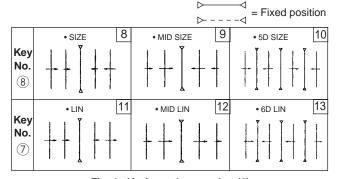
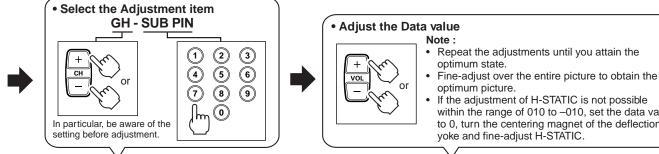


Fig. 1. Horizontal correction (1)

• Horizontal correction adjustment of the green line



	optimani piotare.
•	If the adjustment of H-STATIC is not possible
	within the range of 010 to -010, set the data value
	to 0, turn the centering magnet of the deflection
	yoke and fine-adjust H-STATIC.

	Adjustment Items		Screen No.	Adjustment Method	
aut	1	GH-	KEY	15	
Lean Adjustment	2	GH-	MID KEY *1	16	Advisor and the title constitutions at the Left and state of the constitution of the
n Adj	3	GH-	SUB KEY	19	Adjust so that the vertical green lines on the left and right sides of the screen do not tilt.
Lea	4	GH.	M S KEY *1	20	
	1	GH-	3D KEY	17	
	2	(GF	-M 3D KEY) *1	18	
Ħ	3	GH-	3DS KEY	21	
Adjustment	4	(GF	-M 3S KEY) *1	22	
ljus	5	GH-	PIN	23	Adjust so that the vertical green lines on the left and right sides of the screen become
	6	GH-	MID PIN *1	24	straight with no distortion.
rtioi	7	GH-	SUB PIN	27	
Distortion	8	GH-	M S PIN *1	28	
	9	GH-	4D PIN	25	
	10	(GF	-M 4D PIN) *1	26	
	11	GH-	4DS PIN	29	
	12	(GF	-M 4S PIN) *1	30	Note: Do not adjust items 2, 4, 10 and 12.
-	A 11			l'	the left and right eiden of the agreen

^{*1 :} Adjust taking note of the green vertical lines at 1/4 of the left and right sides of the screen.

■ Screen

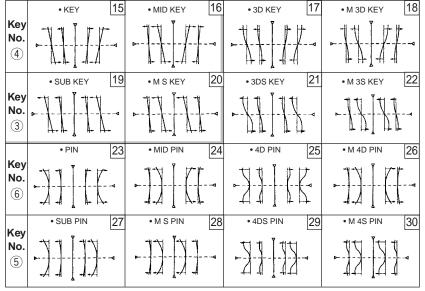


Fig. 2. Horizontal correction (2)

•Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume
 key. Changes are opposite to the arrow when the Volume \bigcirc key is used.

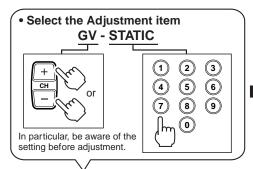
10 -2 Green line adjustment (1st FAC)

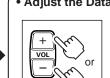


• Adjustment in the vertical direction

Start

Vertical correction adjustment of the green line



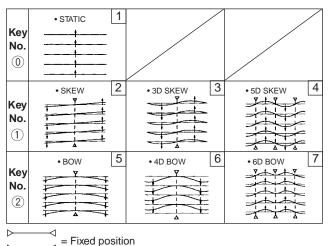


Adjust the Data value

- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of V-STATIC is not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust V-STATIC.

	Αd	ljustment	t Items	Screen No.	Adjustment Method
				00.00	/ tajaotinoni motnou
nt	1	GV-S	STATIC	1	Adjust the center horizontal line to the center of the screen.
Adjustment	2	GV-S	SKEW	2	
gins	3	GV-E	BOW	5	Adjust so that the green vertical line at the center becomes a straight line with neither
Center-line Ad	4	(GV-	3D SKEW)	3	distortion nor tilting.
ij	5	(GV-	4D BOW)	6	
nte	6	(GV-	5D SKEW)	4	Note: Do not adjust items 6 and 7.
ပီ	7	(GV-	6D BOW)	7	Note. Do not adjust items o and 7.
		$\underline{}$			
걸					
l e l	1	GV-S	SIZE	8	
Adjustment	2	GV-L	JN	11	Adjust so that the intervals of the green horizontal lines at the top and bottom of the
	3	GV-N	/IID SIZE	9	screen are symmetrical and correct.
rval	4	GV-N	/ID LIN	12	
Line-interval	5	(GV-	5D SIZE)	10	Note: Do not adjust items 5 and 6.
ine-	6	(GV-	6D LIN)	13	Note. Do not aujust items 3 and 0.
_					

■ Screen



•Screen's changes in the vertical direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume \bigoplus key. Changes are opposite to the arrow when the Volume \bigoplus key is used.

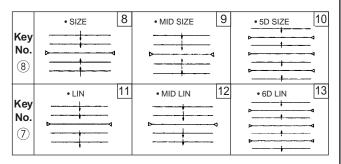
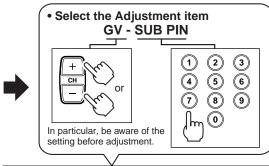


Fig. 3. Vertical correction (1)

Vertical correction adjustment of the green line



Adjust the Data value

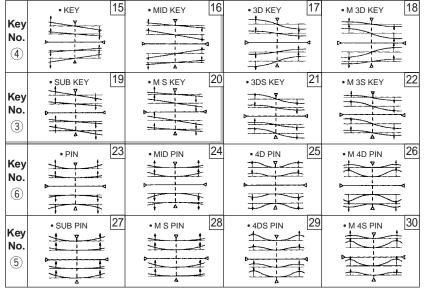
Note:

- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of V-STATIC is not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust V-STATIC.

	A	djustment Items	Screen No.	Adjustment Method
ant .	1	GV-KEY	15	
Lean Adjustment	2	GV-MID KEY *2	16	
n Adj	3	GV-SUB KEY	19	Adjust so that the green horizontal lines at the top and bottom of the screen do not tilt.
Fe	4	GV-M S KEY *2	20	
	1	GV-3D KEY	17	
	2	(GV-M 3D KEY) *2	18	
	3	GV-3DS KEY	21	
ent	4	(GV-M 3S KEY) *2	22	
stm	5	GV-PIN	23	Adjust as that the group havingstal lines at the tap and bettern of the saven become
dj	6	GV-MID PIN *2	24	 Adjust so that the green horizontal lines at the top and bottom of the screen become straight with no distortion.
J uc	7	GV-4D PIN	25	straight with he distortion.
orti	8	(GV-M 4D PIN) *2	26	
Distortion Adjustment	9	GV-SUB PIN	27	
	10	GV-M S PIN *2	28	
	11	GV-4DS PIN	29	
	12	(GV-M 4S PIN) *2	30	Note: Do not adjust items 2, 4, 8 and 12.
<u> </u>				

^{*2 :} Adjust taking note of the green horizontal lines at 1/4 of the left and right sides of the screen.

■ Screen



- •Screen's changes in the vertical direction when manual convergence adjustment is mode
- The changes at the arrow parts shown below are those implemented using the Volume \oplus key. Changes are opposite to the arrow when the Volume \bigcirc key is used.

Fig. 4. Vartical correction (2)

10 -3 Red line adjustment

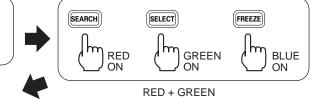


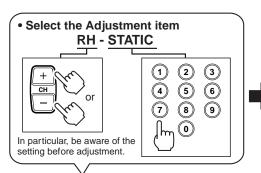
• Adjustment in the horizontal direction

Start

• Horizontal correction adjustment of the red line

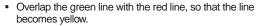
- See 4 Convergence Setting Mode in the Factory ADJ mode.
- Input cross-hatch signals to this device's video input terminal.
- Adjust the convergence of the red line using the green and red lines

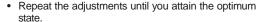




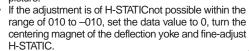
Adjust the Data value

Note:



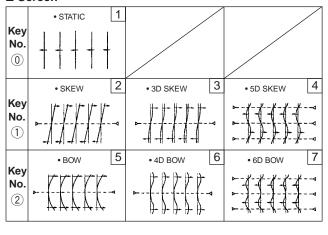






	A	djustment Item	Screen No.	Adjustment Method	
nt	1	RH-STATIC	1	Adjust the red center to match the green center.	
tme	2	RH-SKEW	2		
Adjustment	3	RH-BOW	5		
	4	(RH-3D SKEW)	3	Overlap the red vertical line at the center with the green vertical line.	
ij	5	(RH-4D BOW)	6		
Center-line	6	(RH-5D SKEW)	4	Note: Do not adjust items 6 and 7.	
ပြီ	7	(RH-6D BOW)	7	Note. Do not adjust hems 6 and 7.	
_					
Adjustment	1	RH-SIZE	8		
justi	2	RH-LIN	11	Adjust the interval at the center of the red vertical line to the interval of the green vertical	
	3	RH-MID SIZE	9	line.	
rval	4	RH-MID LIN	12		
inte	5	(RH-5D SIZE)	10	Note: Do not adjust items 5 and 6	
Line-interval	6	(RH-6D LIN)	13	Note: Do not adjust items 5 and 6.	





Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume \bigoplus key. Changes are opposite to the arrow when the Volume \bigoplus key is used.

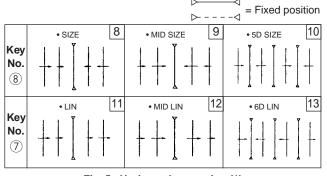
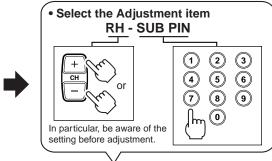


Fig. 5. Horizontal correction (1)

• Horizontal correction adjustment of the red line





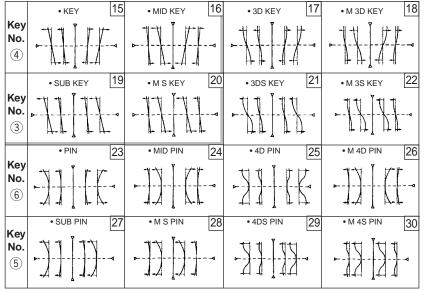


- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of H-STATIC is not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust H-STATIC.

_		V		V
L		Adjustment Item	Screen No.	Adjustment Method
Lean Adjustment	1 2	RH-KEY RH-MID KEY *3	15 16	
n Adj	3	RH-SUB KEY	19	Adjust so that the red vertical lines at the top and bottom of the screen do not tilt.
Lea	4	RH-M S KEY *3	20	
	1	RH-3D KEY	17	
	2	(RH-M 3D KEY) *3	18	
	3	RH-3DS KEY	21	
ent	4	(RH-M 3S KEY) *3	22	
Adjustment	5	RH-PIN	23	
dju	6	RH-MID PIN *3	24	Adjust so that the red vertical line at the top and bottom of the screen overlap with the
	7	RH-4D PIN	25	green vertical lines, and becomes a straight line with no distortion.
Distortion	8	(RH-M 4D PIN) *3	26	
Dist	9	RH-SUB PIN	27	
	10	RH-M S PIN *3	28	
	11	(RH-4DS PIN) *3	29	
	12	RH-M 4S PIN	30	Note: Do not adjust items 2, 4, 8 and 11.
<u> </u>				

^{*3:} Adjust taking note of the red horizontal lines at 1/4 of the left and right sides of the screen.

■ Screen



- Screen's changes in the horizontal direction when manual convergence adjustment is mode
- The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

Fig. 6. Horizontal correction (2)

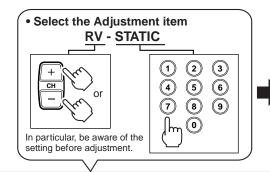
10 -4 Red line adjustment

1st FAC

• Adjustment in the vertical direction

Start

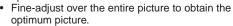
Vertical correction adjustment of the red line

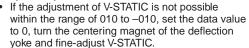


Adjust the Data value

Note



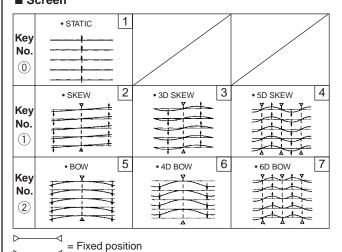






	Α	djustment Item	Screen No.	Adjustment Method	
П					
at	1	RV-STATIC	1	Adjust the red center to match the green center.	
Ĭ.	2	RV-SKEW	2		
Adjustment	3	RV-BOW	5	• Adjust so that the red herizontal line at the center avarians with the green herizontal	
	4	RV-3D SKEW	3	Adjust so that the red horizontal line at the center overlaps with the green hori line.	
ij	5	RV-4D BOW	6		
Center-line	6	(RV-5D SKEW)	4		
ပီ	7	(RV-6D BOW)	7	Note: Do not adjust items 6 to 7.	
Ш					
į					
ਵੱ	1	RV-SIZE	8		
Adjustment	2	RV-LIN	11	Adjust the interval at the center of the red vertical line to the interval of the green vertical	
	3	RV-MID SIZE	9	line.	
rval	4	RV-MID LIN	12		
Line-interval	5	(RV-5D SKEW)	10		
ne-	6	(RV-6D LIN)	13	Note: Do not adjust items 5 and 6.	
لتا					

■ Screen



 Screen's changes in the vertical direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume \bigoplus key. Changes are opposite to the arrow when the Volume \bigoplus key is used.

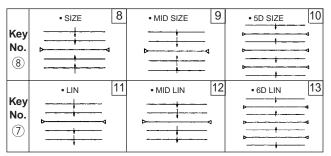
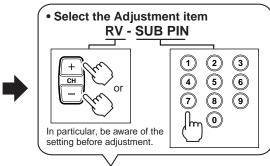


Fig. 7. Vertical correction (1)

• Vertical correction adjustment of the red line



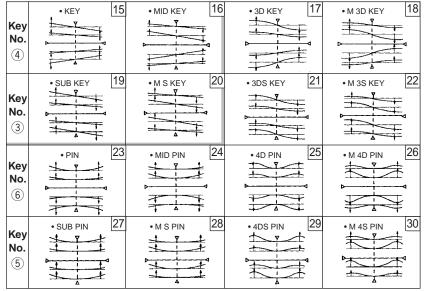


- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of V-STATIC is not possible within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust V-STATIC.

		<u> </u>		
	A	djustment Item	Screen No.	Adjustment Method
Adjustment	1	RV-KEY	15	
justi	2	RV-MID KEY *4	16	Adjust so that the red horizontal lines at the left and right of the screen do not tilt.
	3	RV-SUB KEY	19	Adjust so that the red horizontal lines at the left and right of the screen do not thit.
Lean	4	RV-M S KEY *4	20	
ᆮ				
	1	RV-3D KEY	17	
	2	(RV-M 3D KEY) *4	18	
	3	RV-3DS KEY	21	
ent	4	(RV-M 3S KEY) *4	22	
Adjustment	5	RV-PIN	23	
Adju	6	RV-MID PIN *⁴	24	Adjust so that the red horizontal lines at the left and right of the screen overlap with the
	7	RV-4D PIN	25	green horizontal lines, and become a straight line with no distortion.
Distortion	8	(RV-M 4D PIN) *4	26	
Dist	9	RV-SUB PIN	27	
	10	RV-M S PIN ⁴	28	
	11	RV-4DS PIN	29	Note: Do not adjust items 2, 4, 8 and 12.
	12	(RV-M 4S PIN) *4	30	Hote. Do not adjust items 2, 4, 0 and 12.
<u> </u>				

^{*4 :} Adjust taking note of the red horizontal lines at 1/4 of the left and right sides of the screen.

■ Screen



- Screen's changes in the vertical direction when manual convergence adjustment is mode
 - The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

Fig. 8. Vartical correction (2)

Blue line adjustment



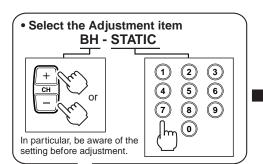
• Adjustment in the horizontal direction



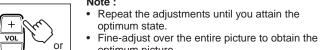
Horizontal correction adjustment of the blue line

- See 4 Convergence Setting Mode in the Factory ADJ mode.
- Input cross-hatch signals to this device's video input terminal.





Adjust the Data value Note:

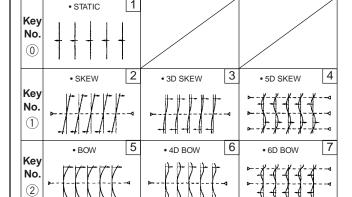


optimum picture. If the adjustment of H-STATIC is not possible

GREEN + BLUE

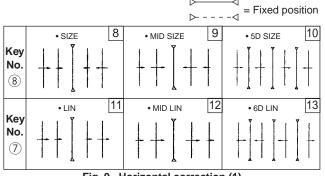
within the range of 010 to -010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust H-STATIC.

A division and Hama Carean Na					<u> </u>	
	Adjustment Item Screen No.			Screen No.	Adjustment Method	
nt	1	BH-S	STATIC	1	Adjust the blue center to match the green center.	
tme	2	BH-S	SKEW	2		
Adjustment	3	BH-E	BOW	5	Overlap the blue vertical line at the center with the green vertical line.	
	4	BH-3	BD SKEW	3	Overlap the blue vertical line at the center with the green vertical line.	
ij	1	BH-4	ID BOW	6		
Center-line	6	BH-5	D SKEW	4	Note: Do not adjust items 6 and 7.	
ပီ	7	вн-6	D BOW	7	Note. Do not adjust items o and 7.	
ш						
ᄇ						
me	1	BH-S	SIZE	8		
Adjustment	2	BH-L	-IN	11	Adjust the interval at the center of the blue vertical line to the interval of the green	
	3	BH-N	MID SIZE	9	vertical line.	
rval	4	BH-N	MID LIN	12		
Line-interval	5	(BH-	5D SIZE)	10	Note: Do not adjust items 5 and 6.	
ine	6	(BH-	6D LIN)	13	Note: Do not adjust nome o and o.	
-						



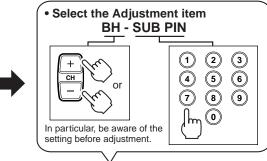
•Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume \oplus key. Changes are opposite to the arrow when the Volume \ominus key is used.



■ Screen

Horizontal correction and adjustment of blue line



• Adjust the Data value

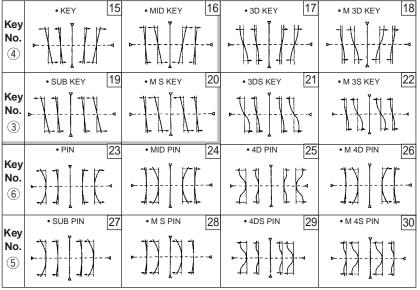
Note:

- Repeat the adjustments until you attain the optimum state.
- Fine-adjust over the entire picture to obtain the optimum picture.
- If the adjustment of H-STATIC is not possible within the range of 010 to –010, set the data value to 0, turn the centering magnet of the deflection yoke and fine-adjust H-STATIC.

	A	djustment Item	Screen No.	Adjustment Method
-			00.00111101	, tajaotinoni motiloa
ent	1	BH-KEY	15	
Lean Adjustment	2	BH-MID KEY *5	16	Adjust so that the blue vertical lines at the top and bottom of the screen do not tilt.
ın Ad	3	BH-SUB KEY	19	Adjust so that the blue vertical lines at the top and bottom of the screen do not tilt.
Fea	4	BH-M S KEY *5	20	
\vdash		$\overline{}$		
	1	BH-3D KEY	17	
	2	(BH-M 3D KEY) *5	18	
	3	BH-3DS KEY	21	
ent	4	(BH-M 3S KEY) *5	22	
Adjustment	5	BH-PIN	23	
\dj.	6	BH-MID PIN *5	24	Adjust so that the blue vertical lines at the top and bottom of the screen overlap with the
	7	BH-4D PIN	25	green vertical lines, and become a straight line with no distortion.
Distortion	8	(BH-M 4D PIN) *5	26	
Dist	9	BH-SUB PIN	27	
	10	BH-M S PIN *5	28	
	11	BH-4DS PIN	29	
	12	(BH-M 4S PIN) *5	30	Note:Do not adjust items 2, 4, 8 and 12.
<u> </u>				

^{*5 :} Adjust taking note of the blue vertical lines at 1/4 of the left and right sides of the screen.

■ Screen



Screen's changes in the horizontal direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume ⊕ key. Changes are opposite to the arrow when the Volume ⊖ key is used.

⇒ - - - - ⊲ = Fixed position

Fig. 10. Horizontal correction (2)

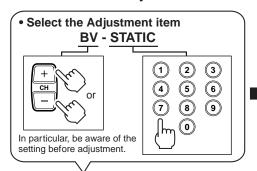
Blue line adjustment



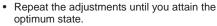
• Adjustment in the vertical direction

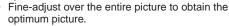
Start

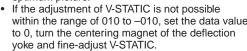
Vertical correction adjustment of the blue line







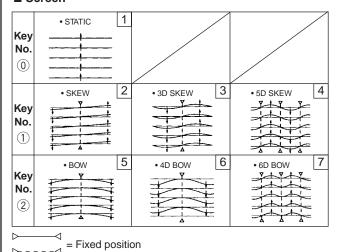




of V-STATIC is not possible	
of 010 to -010, set the data value	

	Ad	djustment Item	Screen No.	Adjustment Method
	1	BV-STATIC	1	Adjust the blue center to match the green center.
en	1	 		Adjust the blue center to match the green center.
stm	2	BV-SKEW	2	
Adjustment	3	BV-BOW	5	
	4	BV-3D SKEW	3	Adjust so that the blue horizontal line at the center overlaps with the green horizontal
Center-line	5	BV-4D BOW	6	line.
nte	6	BV-5D SKEW	4	
ပြီ	7	BV-6D BOW	7	
		$\underline{\underline{\hspace{1cm}}}$		
Adjustment	1	BV-SIZE	8	
justi	2	BV-LIN	11	Adjust the interval at the center of the blue horizontal line to the interval of the green
	3	BV-MID SIZE	9	horizontal line.
Line-interval	4	BV-MID LIN	12	
inte	5	(BV-5D SIZE)	10	Nets, De not edited items F and 6
ine-	6	(BV-6D LIN)	13	Note: Do not adjust items 5 and 6.
ᆜ				

■ Screen



•Screen's changes in the vertical direction when manual convergence adjustment is mode

The changes at the arrow parts shown below are those implemented using the Volume \oplus key. Changes are opposite to the arrow when the Volume \ominus key is used.

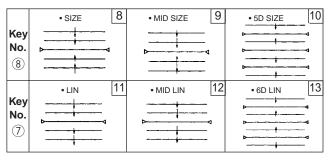
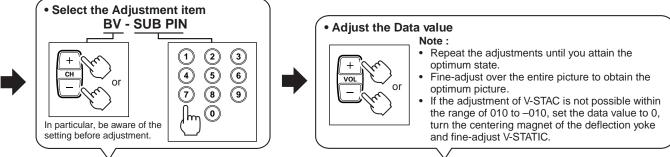


Fig. 11. Vertical correction (1)

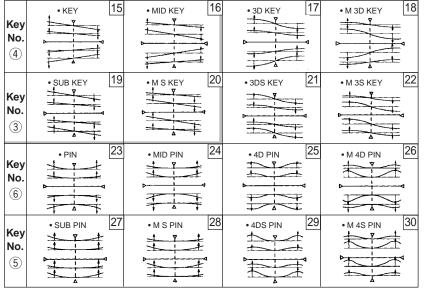
Vertical correction adjustment of the blue line



V				, v		
L	Adjustment Item Scree		Screen No.	Adjustment Method		
Lean Adjustment	1	BV-KEY	15			
	2	BV-MID KEY *6	16	Adjust so that the blue horizontal lines at the left and right of the screen do not tilt.		
	3	BV-SUB KEY	19	Adjust so that the blue horizontal lines at the left and right of the screen do not tilt.		
	4	BV-M S KEY *6	20			
Adjustment	4	DV OD KEV				
	1	BV-3D KEY	17			
	2	(BV-M 3D KEY) *6	18			
	3	BV-3DS KEY	21			
	4	(BV-M 3S KEY) *6	22			
	5	BV-PIN	23			
\dj.	6	BV-MID PIN [№]	24	Adjust so that the blue horizontal lines at the left and right of the screen overlap with the		
ou	7	BV-4D PIN	25	green horizontal lines, and become straight lines with no distortion.		
orti	8	(BV-M 4D PIN) *6	26			
Distortion	9	BV-SUB PIN	27			
	10	BV-M S PIN *6	28			
	11	BV-4DS PIN	29			
	12	(BV-M 4S PIN) *6	30	Note: Do not adjust items 2, 4, 8 and 12.		
\vdash						

*6: Adjust taking note of the blue horizontal lines at 1/4 of the left and right sides of the screen

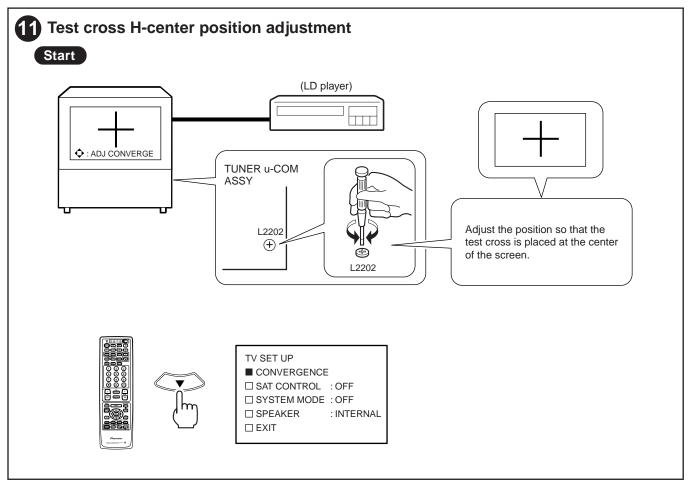
■ Screen

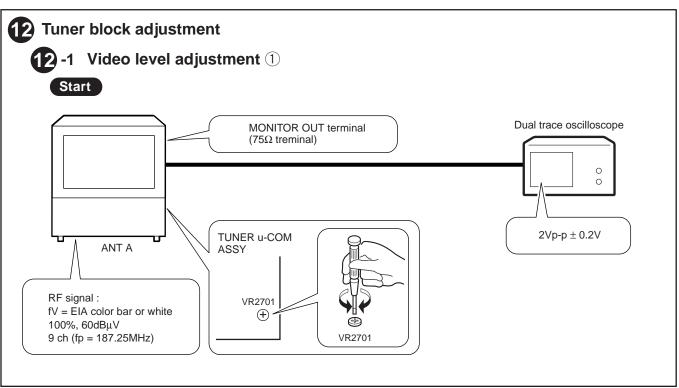


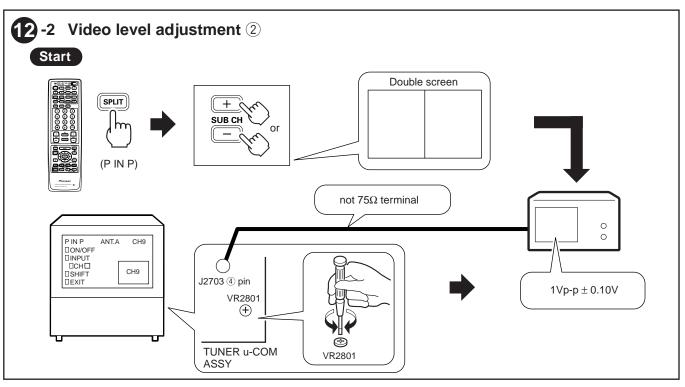
 Screen's changes in the vertical direction when manual convergence adjustment is mode

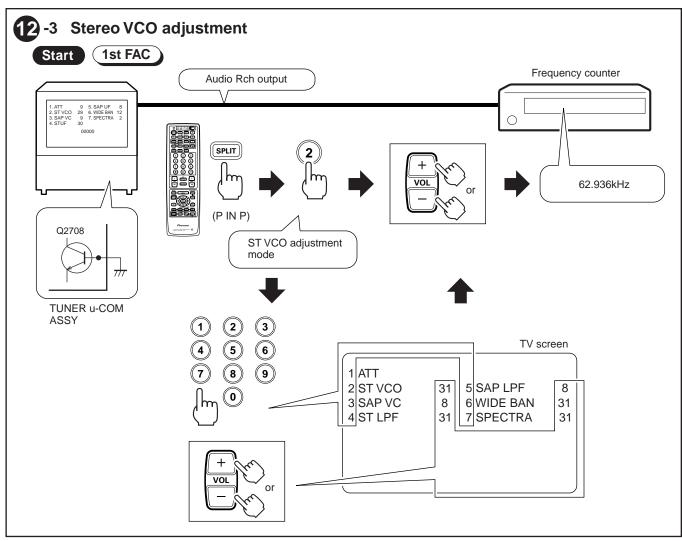
The changes at the arrow parts shown below are those implemented using the Volume \bigoplus key. Changes are opposite to the arrow when the Volume \bigoplus key is used.

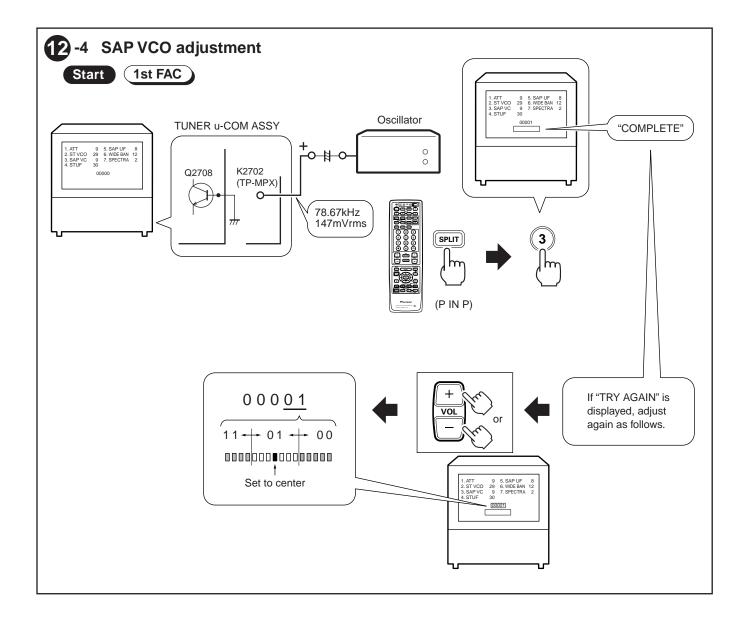
Fig. 12. Vartical correction (2)

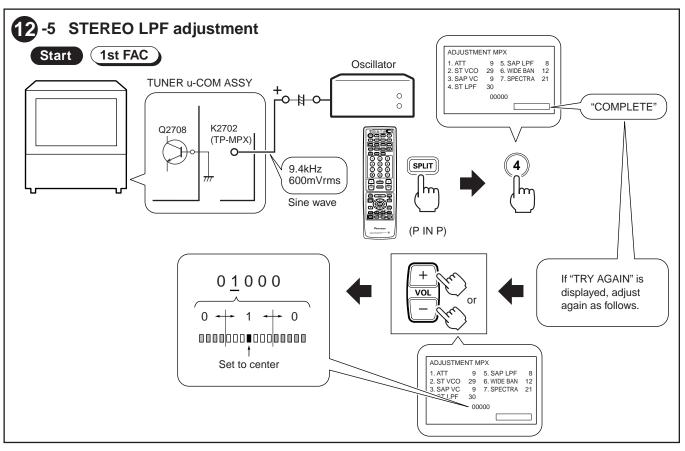


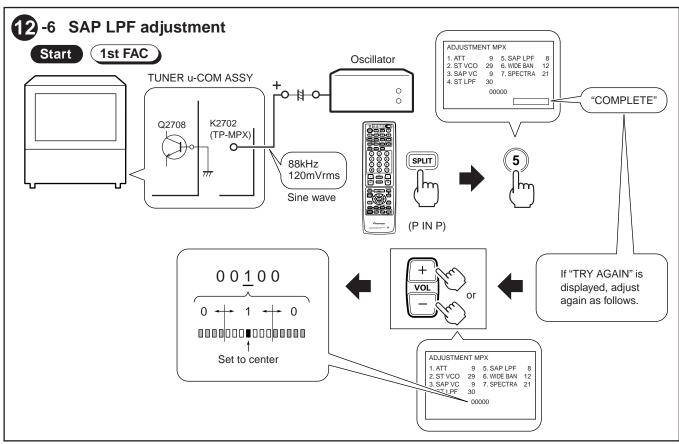


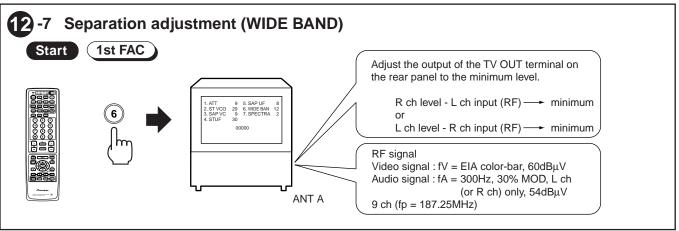


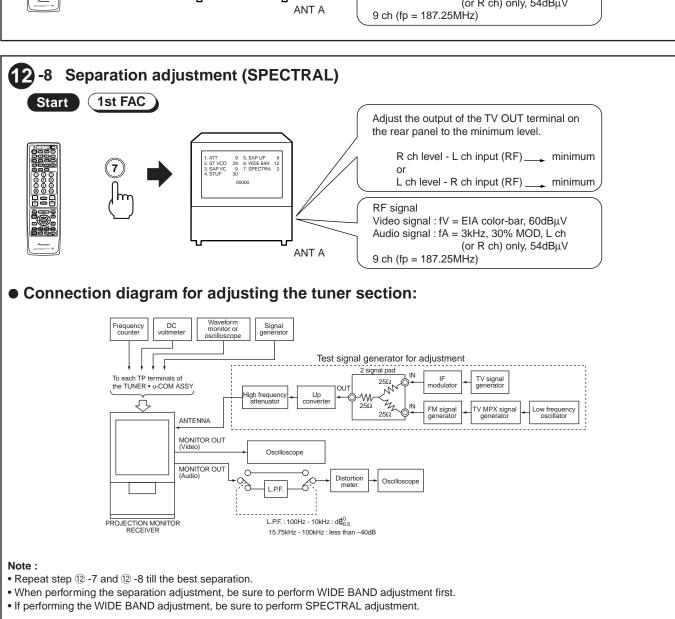


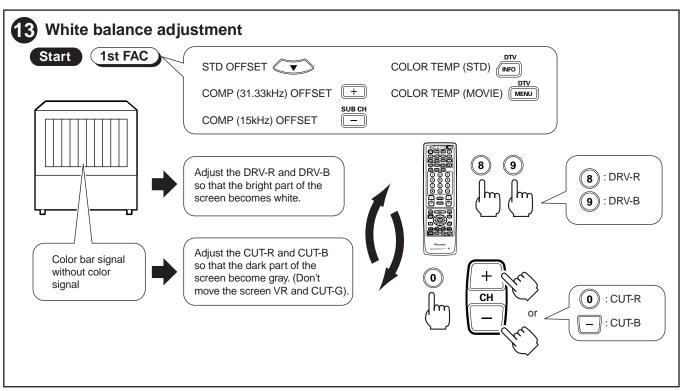


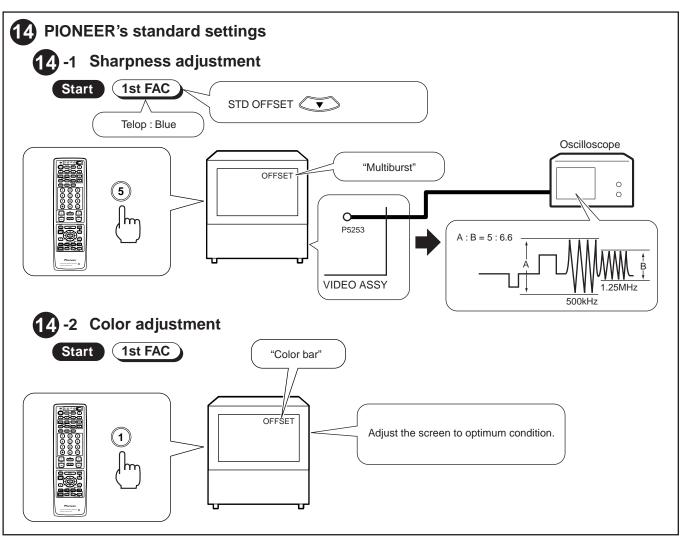


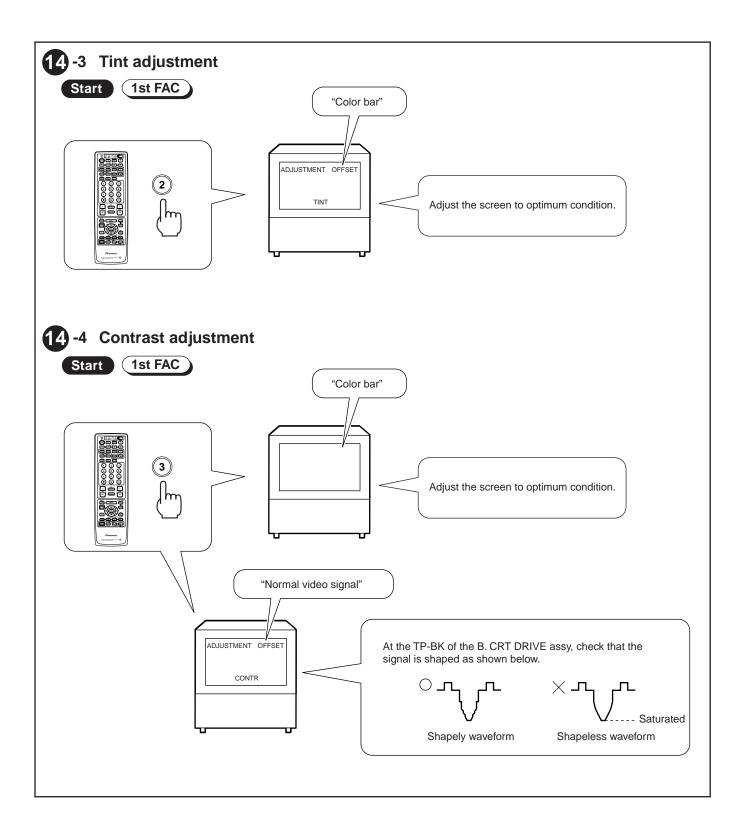


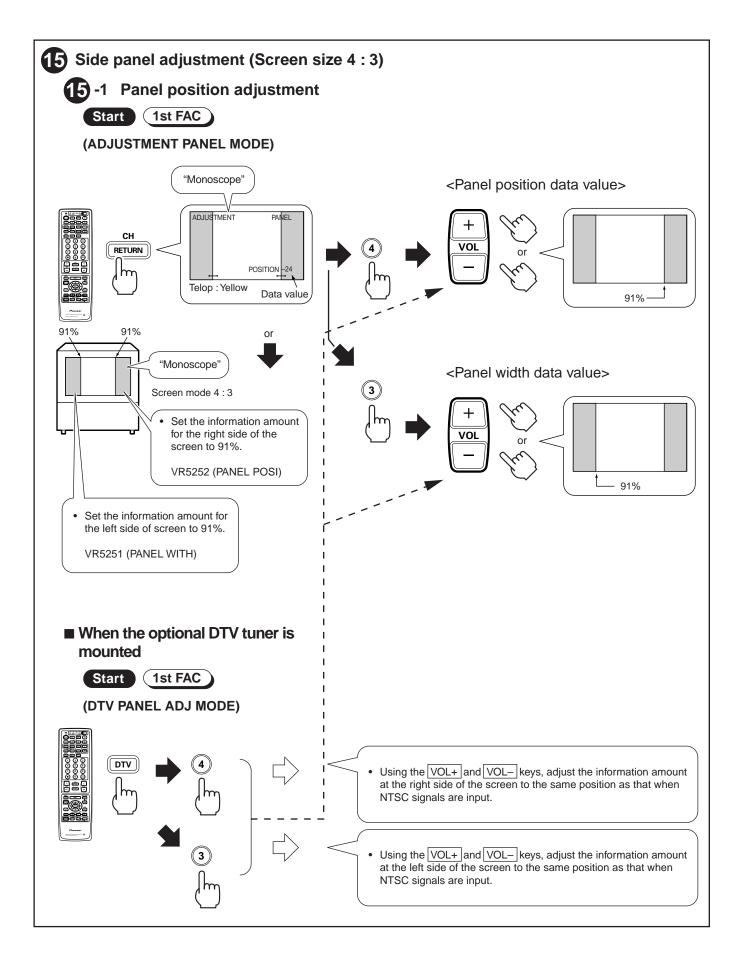


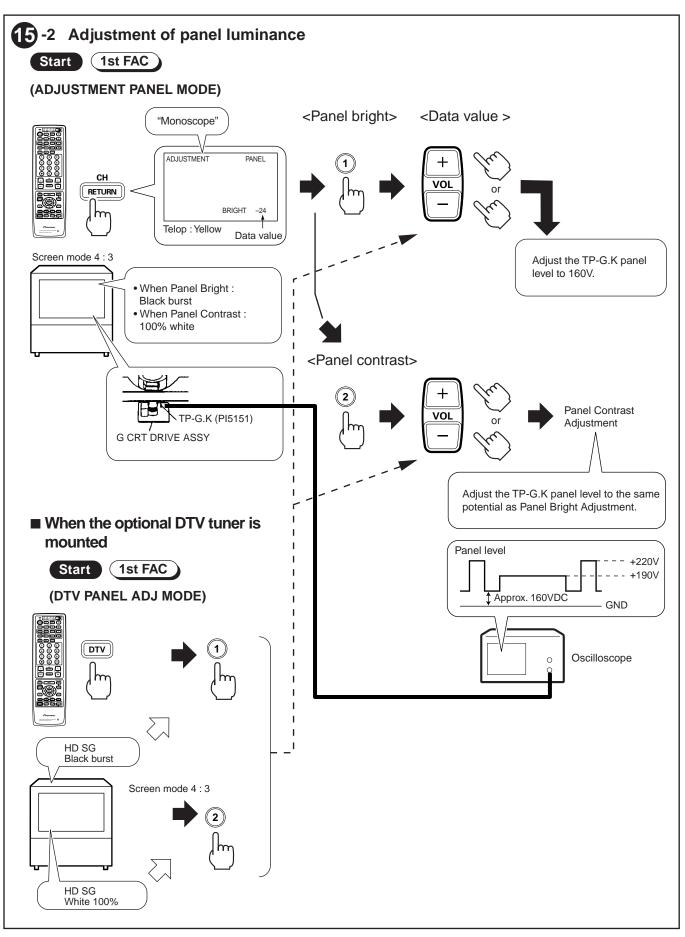


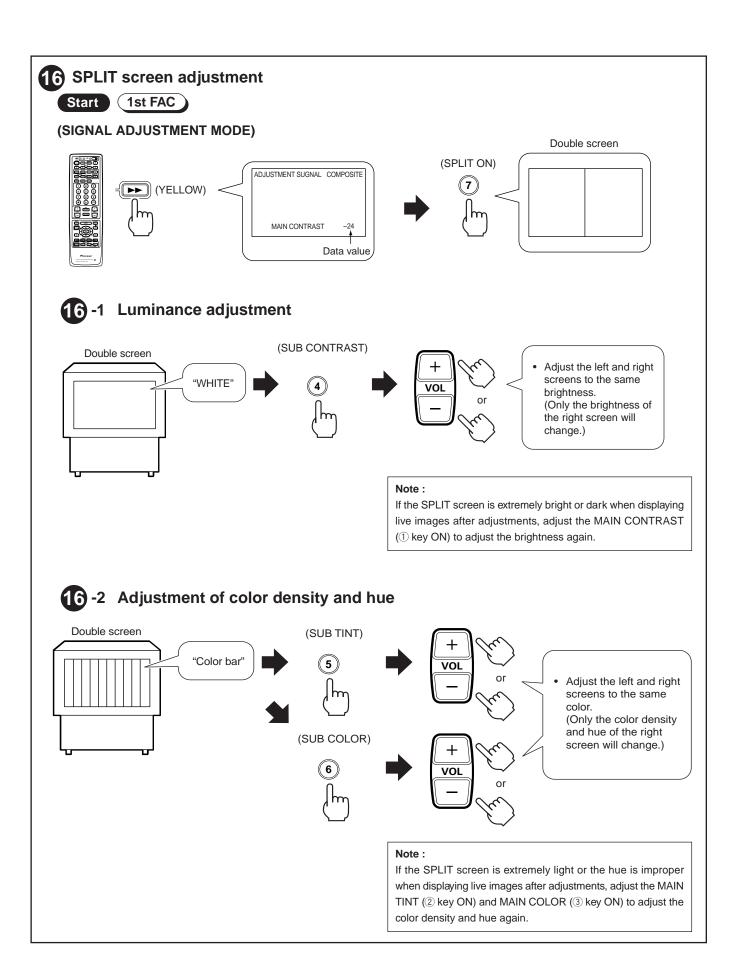












7. GENERAL INFORMATION

7.1 WIRING DIAGRAM

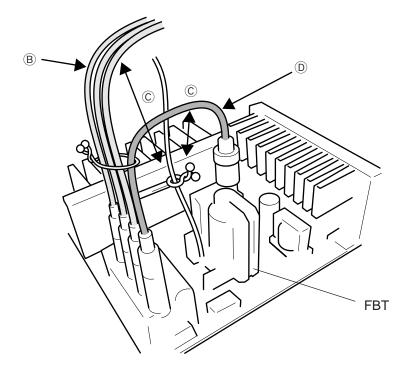
Reconnect any disconnected lead wires of the Projection monitor receiver.

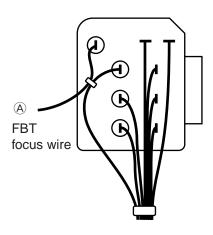
The important points for connection of the lead wires are as shown below.

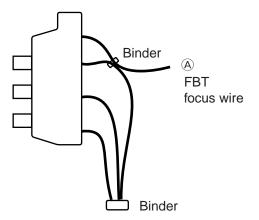
You may find that they were connected differently. Be sure reconnect the lead wires as they were.

Note:

- A: FBT focus wire and other parts should be at least 15mm away from any other parts.
- B: Loop with a radius of 30mm or omre.
- ©: The anode cable and other parts should be at least 15mm away from any other parts.
- ①: Loop with a radius of 50mm or more.







7.2 IC

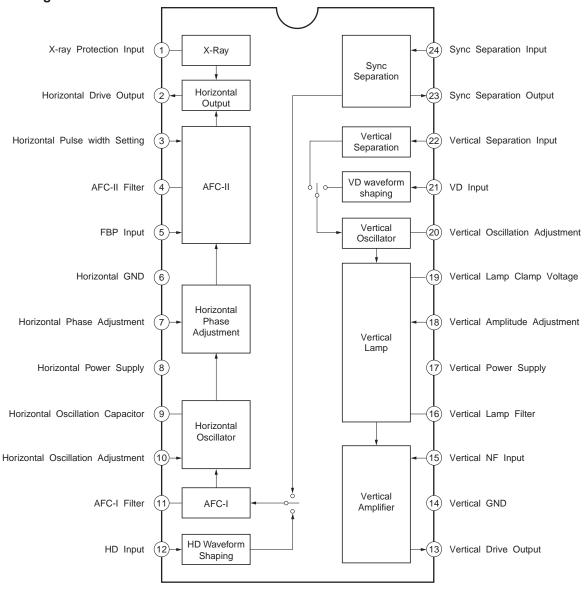
 The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

List of IC

TA8638N	CA0007AD	CXA1315P	STK4412	NJM2187L
PD5462A9	PD5463B9	PD5497B9	PD0264AM	TA1276AN
AN5344FBP	AN5395FBP	SAA7165WP	TDA8755T	SAA4952WP
TMS4C2973-26	CD74HCT4046AM	SAA4990H	PE6001A9	PQ05RD1B
uPD64081BGF-3BA	TA1270AF	NJM2233BM	PQ09RD1B	CXA2119M
MM1031XM	TC90A45F	MB40C568HPFV	MA07132	HY514264BJC-50A
TLC29321PW	PD5499A	24LC08B(I)SN		

■ TA8638N (DEFLECTION ASSY: IC301) DEFLECTION IC

Block Diagram



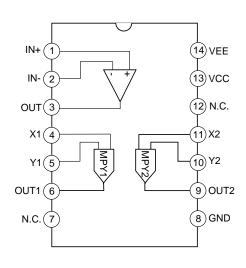
• Pin Function

Pin No.	Pin Name	I/O	Function
			Pin for preventing radiation of X-ray from CRT.
1	X-ray protection input	ı	When this pin is set above 1.3V (standard), the horizontal output will
			stop until H.VCC becomes a low level.
2	Horizontal drive output	0	Horizontal output pin.
			Pin for adding a capacitor for setting horizontal output pulse duty.
3	Horizontal pulse width setting	ı	Pin 3-waveform 1.2mA 4v Horizontal output
4	AFC-II filter	_	Pin for adding capacitor for AFC-II filter.
5	FBP input	ı	FBP input pin.
6	Horizontal GND	-	Horizontal circuit GND
			Horizontal phase adjustment pin.
7	Horizontal phase adjustment	I	The image horizontal position can be adjusted according to the voltage
			of this pin.
8	Horizontal VCC	_	Horizontal circuit VCC=12V (Standard)
9	Horizontal oscillation capacitor	_	Pin for adding the horizontal oscillation capacitor. Oscillation circuit based on rated current discharge. Pin 9 waveform 8V 4V
10	Horizontal oscillation adjustment	ı	Pin for adjusting the horizontal oscillation frequency. Determines the current to Pin 9.
11	AFC-I filter	_	Pin for adding the capacitor to the AFC-I filter.
12	HD input	I	HD signal input pin. The HD signal is selected as the sync signal by setting the voltage of Pin 22 to low level (<0.7V).
13	Vertical drive output	0	Vertical output pin.
14	Vertical GND	_	Vertical circuit GND.
15	Vertical NF input	ı	Vertical negative feed back input pin.
16	Vertical lamp filter	_	Pin for adding a capacitor for generating the vertical lamp waveform. Performs waveform-shaping by the discharged power of the capacitor.
17	Vertical power supply	_	Vertical circuit VCC=12V (Standard)
18	Vertical amplitude width adjustment	I	Pin for adding a capacitor for generating the vertical lamp waveform.
19	Vertical lamp clamp voltage	_	Pin for determining the upper limit voltage of vertical sawtooth wave.
20	Vertical oscillation adjustment	_	Pin for adding the capacitor resistance for vertical oscillation.
21	VD input	I	VD signal input pin. The VD signal is selected as a sync signal by setting the voltage of Pin 22 to low level (<0.7V).
22	Vertical separation input	I	Vertical sync signal input pin. By setting this pin to low level (<0.7V), the HD and VD signals are selected as a sync signal.

Pin No.	Pin Name	I/O	Function
23	Sync separation output	0	Horizontal sync separation output pin. Separates and outputs the sync signal of the composite signal input to Pin 24.
24	Sync separation input	I	Horizontal sync separation input pin.

■ CA0007AD (AMP ASSY: IC907) **DUAL ANALOG MULTIPLIER IC**

Block Diagram

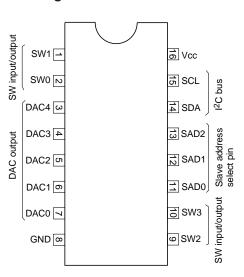


Pin Function

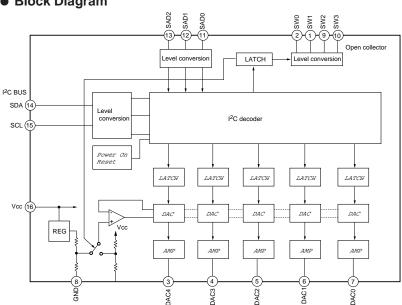
Pin No.	Pin Name	I/O	Function
1	IN+	I	Non-inverting input (OP-AMP)
2	IN-	I	Inverting input (OP-AMP)
3	OUT	0	Output (OP-AMP)
4	X1	I	X input (MPY-1)
5	Y1	- 1	Y input (MPY-1)
6	OUT1	0	Output (MPY-1)
7	N.C.	-	Not connected
8	GND	-	Ground
9	OUT2	0	Output (MPY-2)
10	Y2	I	Y input (MPY-2)
11	X2	I	X input (MPY-2)
12	N.C.	-	Not connected
13	VCC	-	Power
14	VEE	_	Power

■ CXA1315P (AMP ASSY: IC1171) 8 bit D/A CONVERTER

Pin Assignment



Block Diagram

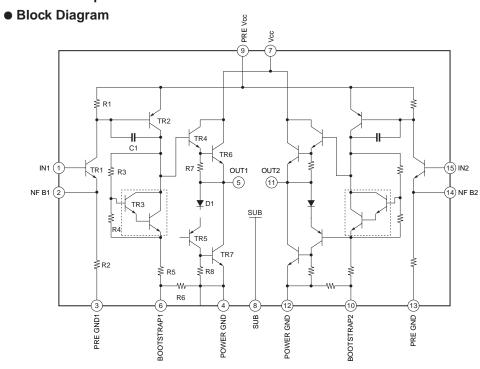


• Pin Function

Pin No.	Pin Name	I/O	Function
1	SW1	I/O	Input/output pin of the general I/O port.
			VILmax: 1.5V
2	SW0	I/O	VIHmin: 3V
	• • • • • • • • • • • • • • • • • • • •	., 0	VOLmax: 0.4V
3	DAC4	0	
4	DAC3	0	
5	DAC2	0	D/A converter output pin.
6	DAC1	0	
7	DAC0	0	
8	GND	_	GND pin.
9	SW2	I/O	Input/output pin of the general I/O port.
9	3002	1/0	VILmax: 1.5V
10	SW3	I/O	VIHmin: 3V
10	3003	1/0	VOLmax: 0.4V
11	SAD0	ı	Input pin of the slave address.
12	SAD1	1	Inputs by positive logic.
			VILmax: 1.5V
13	SAD2	I	VIHmin: 3V
14	SDA	I/O	I ² C BUS SDA input/output pin.
15	SCL	I	I ² C bus SCL input pin.
16	VCC	_	Power supply pin.

■ STK4412 (AMP ASSY: IC1202)

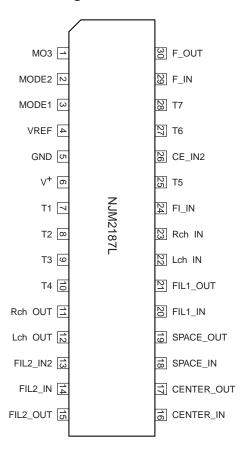
POWER Amp



■ NJM2187L (AMP ASSY: IC1204)

SURROUND IC

Pin Assignment



Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	MO3	I	V+ IN	16	CENTER_IN	I	Center gain adjustment
2	MODE2	ı	Mode selection switch	17	CENTER_OUT	0	Center gain adjustment
3	MODE1	ı	Mode selection switch	18	SPACE_IN	I	Space gain adjustment
4	VREF	_	Reference voltage V+/2	19	SPACE_OUT	0	Space gain adjustment
5	GND	_	Ground	20	FIL1_IN	I	Perspective Network 1 input
6	V+	_	Power supply 4.5V to 13V	21	FIL1_OUT	0	Perspective Network 1 output
7	T1	0	Test pin	22	Lch IN	I	Left channel input
8	T2	0	Test pin	23	Rch IN	1	Right channel input
9	T3	0	Test pin	24	FIIN	I	Perspective Network input
10	T4	0	Test pin	25	T5	I	Test pin
11	Rch OUT	0	Right channel output	26	CE IN	I	Center input
12	Lch OUT	0	Left channel output	27	T6	ı	Test pin
13	FIL2_IN2	ı	Perspective Network 2 input	28	T7	0	Test pin
14	FIL2_IN	ı	Perspective Network 2 input	29	F_IN	I	Perspective Network 3 input
15	FIL2_OUT	ı	Perspective Network 2 output	30	F_OUT	0	Perspective Network 3 output

■ PD5462B9 (TUNER u-COM: IC2201)

MAIN μ-COM

Pin No.	Pin Name	I/O	Function	ACT
1	OPTION	1	For software destination switching	P:L, S:H
2	TEMP.S	1	Unused	_
3	AFT1	I	AFT analog voltage input to tuner 1	_
4	AFT2	I	AFT analog voltage input to tuner 2	_
5	KEY	I	Analog DC voltage input for determination of KEY input	_
6	DPO	1	DPO analog voltage input	_
7	YOBI	1	Unused	_
8	SRDY	- 1	SRDY signal for communication with sharp microprocessor	
9	MCLK	0	MCLK signal for communication with sharp microprocessor	-
10	MDATA	0	MDATA signal for communication with sharp microprocessor	_
11	SDATA	1	SDATA signal for communication with sharp microprocessor	_
12	MREQ	0	MREQ signal for communication with sharp microprocessor	
13	ANT SW2	0	Output for switching ANT SW for tuner 2	ANT.A: H, ANT.B: L
	11.00/0104	TIN 4 :	Tuner 1 reception horizontal sync count input. Same contents as	N
14	H SYNC1	TIM input	H.SYNC2.	Negative polarity
			Horizontal sync count input for tuner 2 reception. Determines that	
			there is a broadcast station if the state in which the number of H.	
15	H SYNC2	TIM input	SYNC is 12 to 18 continues for 8 times, and determines that there	Negative polarity
			is no broadcast station for other states continue for 6 times.	
16	V BLK2	INT input	For data transmission timing	Positive polarity
17	NC	I	Unused	_
18	NC	I	Unused	_
19	MTS SW	0	Tuner 1, 2 audio input switching control signal	Tuner1: L, Tuner2: H
20	(D)SCL	0	I2C BUS for communication with DTV tuner	_
21	(D)SDA	I/O	I2C BUS for communication with DTV tuner	_
22	(D)BUSY	1	BUSY signal for communication with DTV tuner	
23	(D)RESET	0	RESET signal for communication with DTV tuner	
24	(D)INT	INT input	INT signal for communication with DTV tuner	
25	REM	INT input	SR remote control signal input	_
26	CNVSS	-	Connected to VSS	_
27	RESET	1	RESET input	RESET: L
28	TIMER LED	0	LED control signal for reserved recording	Lit: H
29	DTV LED	0	LED control signal for DTV reception	Lit: H
30	XIN	- 1	Main clock generation circuit input pin	-
31	XOUT	0	Main clock generation circuit output pin	_
32	VSS	_	Prints 0V	-
33	LED ON/OFF	0	Main PW RED LED control signal	Lit: H
34	P.D.	- 1	Unused	-
35	RELAY1	0	TV GUIDE +, TUNER 2 power supply relay control	ON: L, OFF: H
36	RELAY2	0	General secondary side circuit power supply relay control	ON: L, OFF: H
37	AC CLK	1	AC.CLK detection input for detection of AC power supply OFF	-
38	FAN DRV	I	Unused	_
39	A.MUTE1	0	Audio mute output	Mute: H
40	A.MUTE2	I	Unused	_

42 C.E.N.B	Pin No.	Pin Name	I/O	Function	ACT
Add	41	C.MUTE	0	Converter mute output. When AC is supplied:L, Discharge:H.	MUTE ON: L, OFF: H
A3	42	C.ENB	0	ENB output for PM0011 AS (convergence DAC IC) control.	Communication permission: L
CLK output for control				PM0011AS (convergence DAC IC, IC1403, IC1408-IC1412),	
Add	43	CLK	0	HG62G010R29FB (auto zoom IC, IC4005)	_
45				CLK output for control	
46	44	DATA	I/O	Same as above, DATE output	_
47	45	E2P RST	0	RESET output for EEPROM	RESET: H
A8	46	(E)SCL	0	SCL output for EEPROM	_
48 IZCSW	47	(E)SDA	I/O	SDA input/output for EEPROM	_
auto converter connector. Connected only in the auto converter mode.		1000111		Control output for separating the (E)SCL, (E)SDA I2C BUS from the	011 011 11
49	48	12CSW	0	auto converter connector. Connected only in the auto converter mode.	SW ON: H
BUS for control				I2C BUS for AXF1084 (Tuner 1 front end), CXA1734S (US sound multi-	
SOL SDA1	49	SCL1	0	decoder IC, IC2701), PD5497B9 (CCD microprocessor, IC2203), I2C	_
VPC1853CT (surround processor, IC1201)				BUS for control	
SCL2	50	SDA1	I/O	Same as above	_
SCL2				uPC1853CT (surround processor, IC1201)	
SCL2	_		_	TA1276N (video jungle IC, IC5251)	
SDA2	51	SCL2	0	CXA1315P (audio DAC, IC1171), CXP1315P (DAC for base)	_
S3					
54 (S)DATA I/O DATA output for sub-microprocessor (PD5463B9) control — 55 (S)ENB O ENB output for sub-microprocessor (PD5463B9) control Communication pe 56 (S)BUSY I BUSY output for sub-microprocessor (PD5463B9) BUSY: I 57 CC SEL O CCD switching control signal Main (CC for left 58 SCL5 O AXF1084 (tuner 2 front end), I2C BUS for control — 59 SDA5 I/O AXF1084 (tuner 2 front end), I2C BUS for control — 60 NC I Unused — 61 SMUTE O Sub-screen mute output — 62 MMUTE O Wideo mute output — 63 V MUTE O Video mute output (Main-screen and sub-screen muted together) Mute: I- 64 PENB I Unused — 65 NC I Unused — 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC, IC4005) control Permission	52	SDA2	I/O		_
54 (S)DATA I/O DATA output for sub-microprocessor (PD5463B9) control — 55 (S)ENB O ENB output for sub-microprocessor (PD5463B9) control Communication pe 56 (S)BUSY I BUSY output for sub-microprocessor (PD5463B9) BUSY: I 57 CC SEL O CCD switching control signal Main (CC for left 58 SCL5 O AXF1084 (tuner 2 front end), I2C BUS for control — 59 SDA5 I/O AXF1084 (tuner 2 front end), I2C BUS for control — 60 NC I Unused — 61 SMUTE O Sub-screen mute output — 62 MMUTE O Main-screen mute output — 63 V MUTE O Video mute output (Main-screen and sub-screen muted together) Mute: F 64 PENB I Unused — 65 NC I Unused — 66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control RESET:	53	(S)CLK	0	CLK output for sub-microprocessor (PD5463B9, IC2202) control	_
55 (S)ENB O ENB output for sub-microprocessor (PD5463B9) control Communication pe 56 (S)BUSY I BUSY output for sub-microprocessor (PD5463B9) BUSY: I 57 CC SEL O CCD switching control signal Main (CC for left 58 SCL5 O AXF1084 (tuner 2 front end), I2C BUS for control — 59 SDA5 I/O AXF1084 (tuner 2 front end), I2C BUS for control — 60 NC I Unused — 61 SMUTE O Sub-screen mute output — 62 MMUTE O Main-screen mute output — 63 V MUTE O Video mute output (Main-screen and sub-screen muted together) Mute: I- 64 PENB I Unused — 65 NC I Unused — 66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control Permission 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC, IC4005) control RESET:	54		I/O	DATA output for sub-microprocessor (PD5463B9) control	_
56 (S)BUSY I BUSY output for sub-microprocessor (PD5463B9) BUSY: H 57 CC SEL O CCD switching control signal Main (CC for left 58 SCL5 O AXF1084 (tuner 2 front end), I2C BUS for control — 59 SDA5 I/O AXF1084 (tuner 2 front end), I2C BUS for control — 60 NC I Unused — 61 SMUTE O Sub-screen mute output — 62 MMUTE O Main-screen mute output — 63 V MUTE O Video mute output (Main-screen and sub-screen muted together) Mute: H 64 PENB I Unused — 65 NC I Unused — 66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control Permission 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC, IC4005) control RESET: 68 3D RST O Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002) RESET:	55	• •			Communication permission: L
57 CC SEL O CCD switching control signal Main (CC for left 58 SCL5 O AXF1084 (tuner 2 front end), I2C BUS for control — 59 SDA5 I/O AXF1084 (tuner 2 front end), I2C BUS for control — 60 NC I Unused — 61 SMUTE O Sub-screen mute output — 62 MMUTE O Main-screen mute output — 63 V MUTE O Video mute output (Main-screen and sub-screen muted together) Mute: F 64 PENB I Unused — 65 NC I Unused — 66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control Permission 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC) control RESET: 68 3D RST O RESET output for HG62G010R29FB (auto zoom IC) control RESET: 69 V CHIP MUTE O V chip muting of main-screen Mute: H <td< td=""><td>56</td><td></td><td>1</td><td></td><td>BUSY: H</td></td<>	56		1		BUSY: H
58 SCL5 O AXF1084 (tuner 2 front end), I2C BUS for control — 59 SDA5 I/O AXF1084 (tuner 2 front end), I2C BUS for control — 60 NC I Unused — 61 SMUTE O Sub-screen mute output — 62 MMUTE O Main-screen mute output — 63 V MUTE O Video mute output (Main-screen and sub-screen muted together) Mute: H 64 PENB I Unused — 65 NC I Unused — 66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control Permission 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC) control RESET: 68 3D RST O Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002) RESET: 69 V CHIP MUTE O V chip muting of main-screen Mute: H 70 TV MUTE O For muting TV OUT signal during station selection Mute: H	57	()		 	Main (CC for left screen): L
59 SDAS I/O AXF1084 (tuner 2 front end), I2C BUS for control — 60 NC I Unused — 61 SMUTE O Sub-screen mute output — 62 MMUTE O Main-screen mute output — 63 V MUTE O Video mute output (Main-screen and sub-screen muted together) Mute: F 64 PENB I Unused — 65 NC I Unused — 66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control Permission 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC) control RESET: 68 3D RST O Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002) RESET: 69 V CHIP MUTE O V chip muting of main-screen Mute: F 70 TV MUTE O For muting TV OUT signal during station selection Mute: F 71 MON MUTE O Muting output for switching VARIABLE and FIX of audio output Mu	58				
SMUTE			+		_
62 MMUTE O Main-screen mute output —— 63 V MUTE O Video mute output (Main-screen and sub-screen muted together) Mute: H 64 PENB I Unused —— 65 NC I Unused —— 66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control Permission 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC) control RESET: 68 3D RST O Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002) RESET: 69 V CHIP MUTE O V chip muting of main-screen Mute: H 70 TV MUTE O For muting TV OUT signal during station selection Mute: H 71 MON MUTE O Muting output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF) 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: H 73 VCC — Supplies power +5V —— 74 ADVREF — Supplies power +5V for AD —— 75 AVSS — Supplies OV —— 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C. — Unused ——	60				
MMUTE O Main-screen mute output ——————————————————————————————————	61	SMUTE	0	Sub-screen mute output	_
O Video mute output (Main-screen and sub-screen muted together) Mute: February	62	MMUTE		·	
64 PENB I Unused — 65 NC I Unused — 66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control Permission 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC) control RESET: 68 3D RST O Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002) RESET: 69 V CHIP MUTE O V chip muting of main-screen Mute: H 70 TV MUTE O For muting TV OUT signal during station selection Mute: H 71 MON MUTE O Signal output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF) Mute: H 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: H 73 VCC — Supplies power +5V — 74 ADVREF — Supplies power +5V for AD — 75 AVSS — Supplies OV — 76 ANT SW1 O Output				· · · · · · · · · · · · · · · · · · ·	Mute: H
65 NC I Unused — 66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control Permission 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC) control RESET: 68 3D RST O Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002) RESET: 69 V CHIP MUTE O V chip muting of main-screen Mute: H 70 TV MUTE O For muting TV OUT signal during station selection Mute: H 71 MON MUTE O Signal output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF) Mute: H 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: H 73 VCC — Supplies power +5V — 74 ADVREF — Supplies power +5V for AD — 75 AVSS — Supplies 0V — 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C.			1		_
66 G.ENB O ENB output for HG62G010R29FB (auto zoom IC, IC4005) control Permission 67 G.RST O RESET output for HG62G010R29FB (auto zoom IC) control RESET: 68 3D RST O Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002) RESET: 69 V CHIP MUTE O V chip muting of main-screen Mute: H 70 TV MUTE O For muting TV OUT signal during station selection Mute: H 71 MON MUTE O Signal output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF) Mute: H 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: H 73 VCC - Supplies power +5V - 74 ADVREF - Supplies power +5V for AD - 75 AVSS - Supplies OV - 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C. - Unused -	_		1		_
67 G.RST O RESET output for HG62G010R29FB (auto zoom IC) control RESET: 68 3D RST O Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002) RESET: 69 V CHIP MUTE O V chip muting of main-screen Mute: H 70 TV MUTE O For muting TV OUT signal during station selection Mute: H 71 MON MUTE O Signal output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF) 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: H 73 VCC - Supplies power +5V 74 ADVREF - Supplies power +5V for AD 75 AVSS - Supplies 0V 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C Unused			0		Permission: L
68 3D RST O Signal for resetting uPD64081BGF-3BA (3D Y/C SEP IC, IC7002) RESET: 69 V CHIP MUTE O V chip muting of main-screen Mute: H 70 TV MUTE O For muting TV OUT signal during station selection Mute: H 71 MON MUTE O Signal output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF) 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: H 73 VCC - Supplies power +5V 74 ADVREF - Supplies power +5V for AD 75 AVSS - Supplies 0V 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C Unused	67				RESET: H
69 V CHIP MUTE O V chip muting of main-screen Mute: F 70 TV MUTE O For muting TV OUT signal during station selection Mute: F 71 MON MUTE O Signal output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF) 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: F 73 VCC - Supplies power +5V - 74 ADVREF - Supplies power +5V for AD - 75 AVSS - Supplies 0V - 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C Unused - 78 N.C Unused - 79 Unused - 70 Unused - 71 Mute: F 70 Mute: F 71 Mute: F 72 V/F MUTE O Muting TV OUT signal during station selection Mute: F 73 Mute: F 74 ADVREF O Muting TV OUT signal during station selection Mute: F 75 AVSS - 76 ANT SW1 O OUTPUT FOR TOWN OUTPUT OUT			-	, ,	RESET: L
70 TV MUTE O For muting TV OUT signal during station selection Mute: H 71 MON MUTE O Signal output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF) 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: H 73 VCC - Supplies power +5V 74 ADVREF - Supplies power +5V for AD 75 AVSS - Supplies 0V 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C Unused					Mute: H
71 MON MUTE O Signal output for monitor out signal muting (When system is connected, when function is switched, when ON/OFF) 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: Fix and Fix of audio output output output in the switching VARIABLE and Fix of audio output output in the switching variable in the switching output out			0	· · · · ·	Mute: H
71 MON MUTE O (When system is connected, when function is switched, when ON/OFF) 72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: H 73 VCC - Supplies power +5V - 74 ADVREF - Supplies power +5V for AD - 75 AVSS - Supplies 0V - 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C Unused - 78 N.C Unused -					
72 V/F MUTE O Muting output for switching VARIABLE and FIX of audio output Mute: F 73 VCC - Supplies power +5V - 74 ADVREF - Supplies power +5V for AD - 75 AVSS - Supplies 0V - 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C. - Unused - 78 N.C. - Unused -	71	MON MUTE	0		Mute: H
73 VCC - Supplies power +5V - 74 ADVREF - Supplies power +5V for AD - 75 AVSS - Supplies 0V - 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C. - Unused - 78 N.C. - Unused -	72	V/F MUTE	0		Mute: H
74 ADVREF - Supplies power +5V for AD - 75 AVSS - Supplies 0V - 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, AN 77 N.C. - Unused - 78 N.C. - Unused -	73		_		
75 AVSS - Supplies 0V - 76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, ANT.A			+	1	_
76 ANT SW1 O Output for switching ANT SW for TUNER1 ANT.A: H, ANT			_		_
77 N.C. – Unused – 78 N.C. – Unused –				1.1	ANT.A: H, ANT.B: L
78 N.C. – Unused –			-		
/9 N.C. - Unused -	79	N.C.	_	Unused	_
80 N.C. – Unused –					

■ PD5463B9 (TUNER u-COM: IC2202)

SUB µ-COM

Pin No.	Pin Name	I/O	Function	ACT
1	DH BLK	I	CCD display sync signal double speed HBLK input	Positive polarity
2	V BLK2	I	CCD display sync signal VBLK input	Positive polarity
3	OPTION	1	Voltage input for switching software destination	P: L, S: H
4	VS	1	Vertical sync input for detecting fH of component signal	Positive polarity
5	HS	1	Horizontal sync input for detecting fH of component signal	Positive polarity
6	NC	_	Unused	-
7	P.RST	0	RESET output for RESET control of progressive BLOCK (PE6001A9, PST9146N), TC9078F (aspect conversion IC)	RESET: H
8	(S)BUSY	0	BUSY line for communication with main microprocessor	H: BUSY
9	(S)ENB	1	ENB line for communication with main microprocessor	Communication permission: L
10	(S)DATA	I/O	DATA line for communication with main microprocessor	
11	V SIZE ADJ	0	PWM output for vertical size adjustment	Size large: +, Size small: –
12	H SIZE ADJ	0	PWM output for horizontal size adjustment	Size large: +, Size small: –
13	H PHA ADJ	0	PWM output for horizontal position adjustment	Move to right: –, Move to left: +
14	OSD ENB	0	ENB output for PD0264A(OSD IC) control	Communication permission: L
15	(S)CLK	ı	CLK line input for communication with main microprocessor	
16	OSD DATA	0	DATA output for controlling PD0264 A (OSD IC)	_
17	OSD CLK	0	CLK output for controlling PD0264 A (OSD IC)	_
18	AVCC	_	Analog power supply. Connected to +5V.	_
19	HLF	_	Connected to external part for CCD timing signal generation circuit	_
20	RVCO	_	Connected to external part for CCD timing signal generation circuit	_
21	VHOLD	_	Connected to external part for CCD reference voltage generation circuit	_
22	CC Y1	1	Input of video signal for main screen CCD and V CHIP detection	Positive polarity
23	CNVSS	_	Connected to VSS.	
24	XIN	_	Input pin of main clock generation circuit	_
25	XOUT	_	Output pin of main clock generation circuit	_
26	VSS	_	Supplies to 0V	_
27	VCC	_	Supplies +5V power supply	_
28	OSC1	1	Clock input for display	_
29	OSC2	I/O	Clock output for display	_
30	RESET	1	RESET input	Reset: L
31	V O/X1	1	Input for main signal input detection	Signal present: L
32	V O/X2	1	Input for sub signal input detection	Signal present: L
33	CENT O/X	1	Input for center input detection	Signal present: H
34	FRESH TONE	0	Signal output for switching skin color compensation input range	ON: L
35	CNR SW	0	Control output for CNR ON/OFF	ON: L
36	SDA4	I/O	I2C BUS for CXA2069Q (AV selection SW), CXA1315M (DAC for AV I/O) control	-
37	SDA3	0	TC9078F (aspect conversion IC), 87C654 (line doubler control microprocessor), SAA7165 (D/A conversion), I2C BUS for control	-
38	SCL4	0	Same as SDA4	_
39	SCL3	0	Same as SDA3	_
		<u>!</u>		

Pin No.	Pin Name	I/O	Function	ACT
40	AUX SW	0	Switches between external double speed component input signal, DTV 1080 signal, and double speed component signal double speed signal processed inside the unit	External double speed: H Others: L
41	COMP3 MUTE	0	Sub-screen component signal (15K) mute output	Mute: H
42	COMP2 MUTE	0	Main-screen component signal (15K) mute output	Mute: H
43	COMP1 MUTE	0	Double speed component signal (31.5K/33.75K) mute output	Mute: H
44	H OSC SW	0	Horizontal free-running frequency switching signal	31 K: H, 33 K: L
45	LIN WHITE	I	Unused	Sync with CUT B
46	NC	-	Unused	Unused
47	NC	_	Unused	Unused
48	NC	-	Unused	Unused
49	CC1-BLK	0	BLK output for main-screen CCD	Positive polarity
50	CC1-B	0	B output for main-screen CCD	Positive polarity
51	CC1-G	0	G output for main-screen CCD	Positive polarity
52	CC1-R	0	R output for main-screen CCD	Positive polarity

■ PD5497B9 (TUNER u-COM: IC2203)

CCD µ-COM

Pin No.	Pin Name	I/O	Function	ACT
1	DH BLK	I	Sync signal double speed HBLK input for CCD display	Positive polarity
2	V BLK2	I	Sync signal VBLK input for CCD display	Positive polarity
3	OPTION	1	Voltage input for switching software destination	P: L, S: H *1
4	NC	ı	Unused	-
5	NC	I	Unused	-
6	NC	I	Unused	
7	NC	I	Unused	-
8	NC	I	Unused	-
9	NC	I	Unused	-
10	NC	I	Unused	-
11	NC	I	Unused	
12	NC	I	Unused	-
13	NC	I	Unused	-
14	NC	I	Unused	-
15	NC	I	Unused	-
16	NC	I	Unused	-
17	NC	I	Unused	-
18	AVCC	_	Connected to analog power supply, +5V	-
19	HLF	_	Connected to external part for CCD timing signal generation circuit	_
20	RVCO	_	Connected to external part for CCD timing signal generation circuit	-
21	VHOLD	_	Connected to external part for CCD reference voltage generation circuit	
22	CC Y2	ı	Video signal input for detection of sub-screen CCD, V CHIP	Positive polarity
23	CNVSS	_	Connected to VSS	-
24	XIN	_	Input pin of main lock generation circuit	_
25	XOUT	_	Output pin of main lock generation circuit	-

Pin No.	Pin Name	I/O	Function	ACT
26	VSS	_	Supplies 0V	_
27	VCC	_	Supplies +5V power supply	_
28	OSC1	I	Clock input for display	_
29	OSC2	I/O	Clock output for display	_
30	RESET	1	RESET input	RESET:L
31	NC	1	Unused	-
32	NC	1	Unused	_
33	NC	1	Unused	_
34	NC	1	Unused	_
35	NC	1	Unused	-
36	NC	1	Unused	-
37	SDA1	I/O	I2C BUS for communication with main microprocessor	_
38	NC	1	Unused	-
39	SCL1	0	Same as SDA1	-
40	NC	1	Unused	-
41	NC	1	Unused	-
42	NC	1	Unused	-
43	NC	1	Unused	-
44	NC	I	Unused	_
45	NC	1	Unused	-
46	NC	1	Unused	-
47	NC	1	Unused	-
48	NC	I	Unused	-
49	CC2-BLK	0	BLK output for sub-screen CCD	Positive polarity
50	CC2-B	0	B output for sub-screen CCD	Positive polarity
51	CC2-G	0	G output for sub-screen CCD	Positive polarity
52	CC2-R	0	R output for sub-screen CCD	Positive polarity

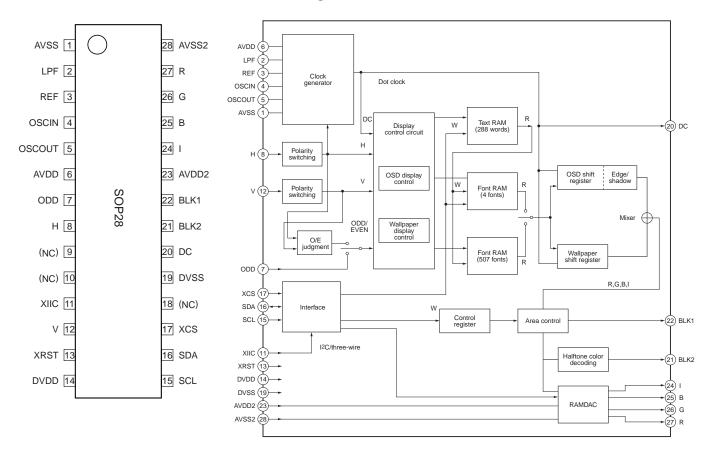
^{*1} P: AWV1715 S: AWV1723

■ PD0264AM (TUNER u-COM ASSY: IC2206)

OSD (On-Screen Display) IC

Pin Assignment

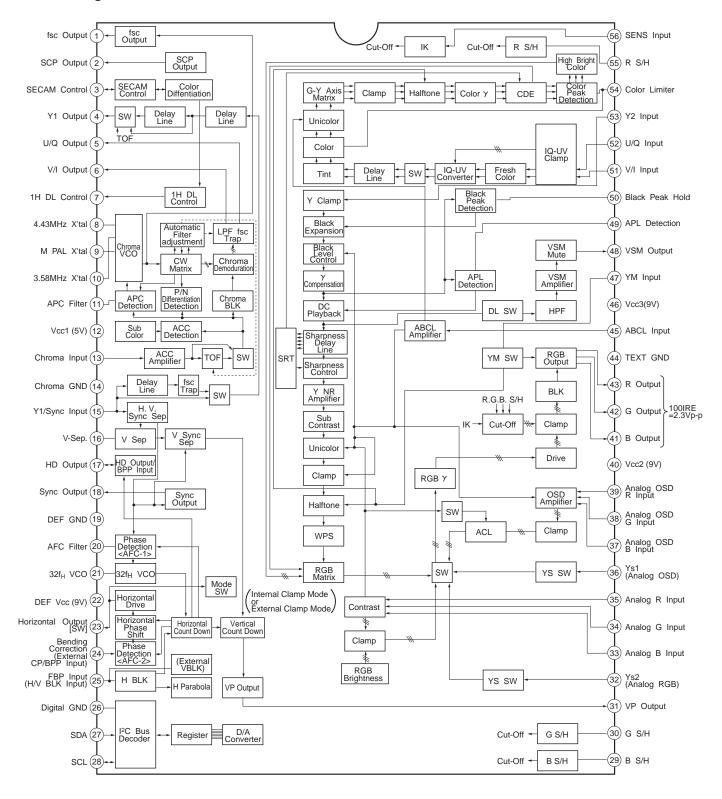
• Block Diagram



Pin No.	Pin Name	I/O	Function
1	AVSS	_	Ground pin of the analog circuit section.
2	LPF	I	An external low-pass filter is connected.
3	REF	- 1	The free-running frequency of VCO is determined.
4	OSCIN	- 1	Oscillation input pin. This pin must be secured to the ground level.
5	OSCOUT	0	Oscillation output pin. (NC)
6	AVDD	_	Pin through which power is supplied to the analog circuit section.
7	ODD	I	Pin through which the field judging signal is input. When the signal goes to "H", it becomes ODD.
8	Н	I	The horizontal synchronization signal is input. (Input polarity can be set.)
9	(NC)	_	
10	(NC)	_	
11	XIIC	I	Mask option function. When the serial three-wire is used, this terminal is usually fixed to "H".
12	V	I	The vertical synchronization signal is input. (Input polarity can be set.)
13	XRST	I	When set at "L", the inside of IC is initialized.
14	DVDD	I	Pin through which power is supplied to the digital circuit section.
15	45 001	1	Serial clock input terminal. When set at I ² C, this terminal functions as SCL. When the serial
15	SCL		three-wire is used, this terminal functions as the serial clock input terminal.
16	SDA I/O	I/O	Serial data input and output terminal. When set at I ² C, this terminal functions as SDA. When
10	SDA	1/0	the serial three-wire is used, this terminal functions as the serial data input terminal.
			Chip select input terminal. When set at I ² C, this terminal is not used; it is fixed to either "L" or
17	XCS	ı	"H". When the serial three-wire is used and this terminal is level "L", the serial data and serial
17	700	'	clock are enabled. When the serial three-wire is used and this terminal is level "H", the serial
			data and serial clock are disabled.
18	(NC)	_	
19	DVSS	_	Ground pin of the digital circuit section.
20	DC	0	This terminal can be set to output the dot clock.
21	BLK2	0	This terminal outputs the timing of blanking 2 in the form of positive logic.
22	BLK1	0	This terminal outputs the timing of blanking 1 in the form of positive logic.
23	AVDD2	I	This terminal is the pin through which power is supplied to the DAC output port system.
24	1	0	This terminal outputs the intensity signal.
25	В	0	This terminal outputs the blue signal.
26	G	0	This terminal outputs the green signal.
27	R	0	This terminal outputs the red signal.
28	AVSS2	I	This terminal is the ground pin of the DAC output port system.

■ TA1276AN (VIDEO ASSY: IC5251) CHROMA SYNC DEFLECTION PROCESSING IC PAL/NTSC SYSTEM COLOR TV IC

Block Diagram



The double speed mode can be set by connecting Pin 23 to VCC. (Note)

^[] indicates for double speed mode. (External clamp pulse input mode)

Pin No.	Pin Name	I/O	Function	I/O Signal
1	fsc output	0	Outputs the VCXO oscillation waveform. Inputs the 3.58 NTSC signal, and the output DC becomes 3.2V only for color. It is 1.4V for Black/white and other signals.	DC 3.58 NTSC colored:3.2V Black/white/Other system:1.4V AC 0.6 Vp-p
2	SCP output	0	Outputs SCP (Sand Castle Pulse). The output signal is clamp pulse, horizontal blanking pulse, and vertical blanking.	
3	SECAM control	I/O	I/O pin for controlling the SECAM demodulation IC.	When PAL/NTSC:4.0V When SECAM:0.75V
4	Y1 output	0	Outputs the Y signal passed through the fsc TRAP (TRAP can be turned ON/OFF by the bus) and Y delay line circuit.	1Vp-p 1vp-p 2v GND
5	U/Q output	0	Outputs the B-Y (U) signal or Q signal. Incorporates the LPF for eliminating carrier.	DC 2.5V Rainbow color bar: 360mVp-p
6	V/I output	0	Outputs the R-Y (V) signal and I signal. Incorporates the LPF for eliminating carrier.	DC 2.5V Rainbow color bar:360 mVp-p
7	1H DLcontrol	0	Outputs the PAL/SECAM/NTSC differential results. Maintains the voltage just before for black/white differentiation.	8.4V : PAL 4.3V : SECAM 0V : NTSC
8	4.43MHz X'tal	I		DC
9	M PAL X'tal	- 1	Connected to X'tal.	4.0V
10	3.58MHz X'tal	- 1		90 mVp-p
11	APC filter	0	Connected to the APC filter for chroma demodulation.	DC
12	VCC1 (5V)	_	VCC of chroma block 2 bus block.	-
13	Chroma input	I	Chroma input. Input the Y/C separated chroma signal.	Burst signal 300mVp-p 2.5V
14	Chroma GND	_	Chroma processing block GND.	_
15	Y1/sync input	ı	Composite video signal or Y signal input.	1Vp-p 2.5V GND
16	V-Sep	0	Connected to the vertical sync separation filter.	DC 6.4V

Pin No.	Pin Name	I/O	Function	I/O Signal
17	HD output	0	 (1) When bus HD-OUT=0, outputs the HD pulse imposed with AFC (pulse width:1 us). Also provided with a BPP (black peak detection stop pulse) signal external input function. (2) When bus HD-OUT=1, and AKB is ON, outputs the AKB reference period pulse. 	(1) HD 1µs Ext BPP 0V BPP TH : 1.0V (2) 0V
18	Sync output	0	Outputs the sync signal separated in the sync separation circuit.	5VGND
19	DEF GND	_	DEF block GND.	-
20	AFC filter	0	Connected to the horizontal AFC filter. Determines the horizontal output frequency at the voltage of this pin.	DC
21	32fH VCO	0	Connected to the ceramic oscillator for horizontal oscillation.	130mVp-p
22	DEF VCC (9V)	_	VCC of the DEF block.	_
23	Horizontal output (Mode SW)	0	Horizontal output pin.	HIGH: 3.2V LOW: 0.2V
24	Bending correction (External CP/BPP Input)	T.	(1) Normal scan modeCorrects bending of the screen during high voltage changes.(2) Double speed modeInputs the clamp pulse externally when this mode.	(1) DC 4.5V (2) External clamp pulse 1.5µs Ext CP TH : 3.6V BPP TH : 1.0V
25	FBP input	ı	Inputs the FBP for generating the pulse for horizontal AFC2, Y smoothing, horizontal blanking.	9V
26	Digital GND	_	I ² L block GND pin.	-
27	SDA	I/O	I ² C bus SDA pin.	-
28	SCL	I	I ² C bus SCL pin.	-
$\overline{}$				

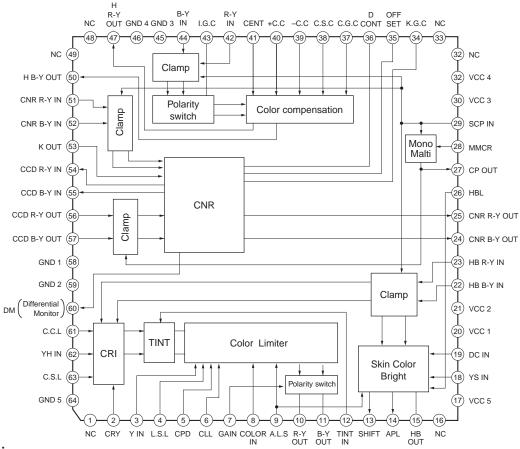
Pin No.	Pin Name	I/O	Function	I/O Signal	
29	B S/H	0	S/H (sample hold) pin for AKB mode or clamp mode.	DC	
30	G S/H	0	S/H (sample hold) pin for AKB mode or clamp mode.	DC	
31	VP output	0	Vertical pulse output.	5V	
32	YS2	I	Switch for switching the internal RGB signal and analog RGB (pins 33, 34, 35). The VM output is muted when YS2 SW is ON.	A. BGB 0.75V TV GND	
33	Analog B input	I		100IRE : 0.5Vp-p	
34	Analog G input	I	Analog RGB input pins.	/	
35	Analog R input	I		3.5V GND	
36	YS1	I	Switch for switching between the internal RGB signal and OSD/ analog RGB (pins 37, 38, 39). The VSM output is muted when YS1 SW is ON.	A. BGB 2.25V VSM Mute 0.75V TV GND	
37	Analog OSD B input	I			
38	Analog OSD G input	I	OSD signal or analog RGB input pins.		
39	Analog OSD R input	ı			
40	VCC2 (9V)	_	Text block VCC pin.	-	
41	B output	0		100IRE : 0.5Vp-p	
42	G output	0	RGB output.	2.5V	
43	R output	0		At Cont Max. BRT Cent.	
44	TEXT GND	_	TEXT block GND pin.	-	
45	ABCL input	I	External unicolor, brightness, dynamic ABL control pin.	ABCL OFF: Higher than 6V	
46	VCC3 (9V)	_	VCC pin of the picture quality and color difference block.	-	

Pin No.	Pin Name	I/O	Function	I/O Signal
47	YM input	ı	Internal RGB signal halftone SW.	
48	VSM output	0	Outputs the DC played back Y signal which had passed through HPF. The output is muted by the pins 32 and 36 switches.	DC 3.5V
49	APL detection	0	Connected to the filter for correcting the DC playback rates.	DC
50	Black peak hold	ı	Connected to the filter for controlling the black expansion gain of the black expansion circuit.	DC
51	V/I input	I		When Burst:Chroma=1:1:
52	U/Q input	ı	Pin for inputting the R-Y (V)/I signal and B-Y (U)/Q signal.	360 mVp-p DC: 5.0V
53	Y2 input	ı	Pin for inputting the Y signal.	1Vp-p (Including sync)
54	Color limiter	0	Connected to the filter for detecting the color limit.	DC
55	R S/H	0	Same as pins 29 and 30.	DC
56	SENSE input	I	Inputs the IK feedback signal from the CRT.	R . G . B1.5V

■ AN5344FBP (SUB VIDEO ASSY: IC4201)

COLOR CONTROL IC

Block Diagram



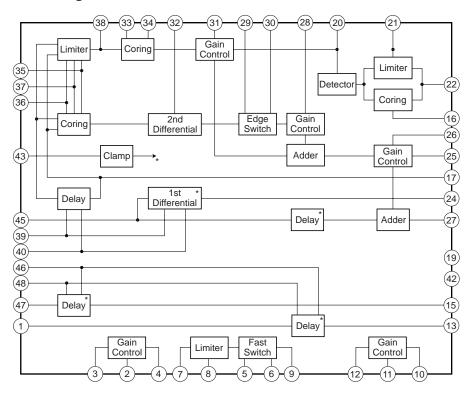
Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	NC	_	NC	19	DC IN	I	External DC input
2	CRI	I	CRI correction amount	20	VCC 1	_	VCC1 (Main)
3	YIN	I	Y input	21	VCC 2	_	VCC2 (Clamp system)
4	L.S.L	ı	Limit slice level	22	HB B-Y IN	ı	Skin color bright B-Y input
5	CPD	ı	Color peak detection	23	HB R-Y IN	I	Skin color bright R-Y input
6	CLL	ı	Color limit level	24	CNR B-Y OUT	0	CNR B-Y output
7	GAIN	ı	Output polarity gain control	25	CNR R-Y OUT	0	CNR R-Y output
8	COLOR IN	I	Color control voltage	26	HBL	_	(Skin color bright correction amount) NC
9	A.L.S	ı	APL connection limiter switch	27	CP OUT	_	Clamp pulse output
10	R-Y OUT	0	R-Y output	28	MMCR	I	Monostable multivibrator CR
11	B-Y OUT	0	B-Y output	29	SCP IN	ı	SCP input
12	TINT IN	ı	Tint control voltage	30	VCC 3	_	VCC3 (B-Y system)
13	SHIFT	0	APL shift adjustment	31	VCC 4	_	VCC4 (R-Y system)
14	APL	0	APL detection	32	NC	_	NC
15	НВ ОНТ	_	(Skin color bright output) NC	33	NC	_	NC
16	NC		NC	34	K.G.C	_	(K calculation gain control) NC
17	VCC 5	_	VCC5 (For CNR)	35	OFFSET	I	Offset control
18	YS IN	I	YS input	36	D CONT	_	(Differential control) NC

Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
37	C.G.C	- 1	Color compensation gain control	51	CNR R-Y IN	I	CNR R-Y input
38	C.S.C	I	Color compensation stop control	52	CNR B-Y IN	I	CNR B-Y input
39	- C.C	- 1	- side compensation control	53	K CONT	I	K control
40	+ C.C	- 1	+ side compensation control	54	CCD R-Y IN	_	(CCD R-Y input) NC
41	CENT	I	Center axis control	55	CCD B-Y IN	_	(CCD B-Y input) NC
42	R-Y IN	ı	R-Y input	56	CCD R-Y OUT	0	CCD R-Y output
43	I.G.C	- 1	Input polarity gain control	57	CCD B-Y OUT	0	CCD B-Y output
44	B-Y IN	- 1	B-Y input	58	GND 1	_	GND1 (Main)
45	GND	_	GND 3 (B-Y system)	59	GND 2	_	GND2 (Clamp system)
46	GND	_	GND 4 (R-Y system)	60	DM	_	(Differential monitor) NC
47	H R-Y OUT	0	Skin color compensation R-Y output	61	C.C.L	ı	CRI core ring level
48	NC	_	NC	62	YH IN	I	Y high band input
49	NC	_	NC	63	C.S.L	I	CRI slice level
50	H B-Y OUT	0	Skin color compensation B-Y output	64	GND	_	GND5 (For CNR)

■ AN5395FBP (SUB VIDEO ASSY: IC4401)

HDTV IC

Block Diagram



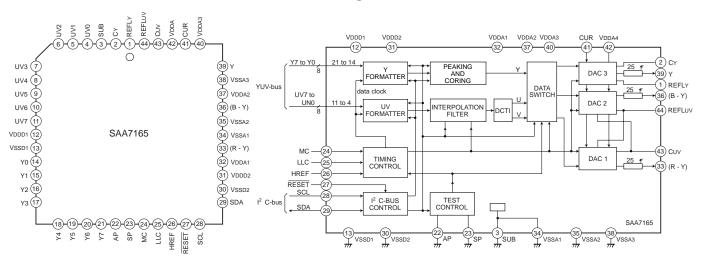
Pin No.	Function	I/O	Pin No.	Function	I/O
1	Pr input	I	25	Sharpness mute control	I
2	VM preamplifier gain control	ı	26	Sharpness control	I
3	VM preamplifier input	I	27	Y output	0
4	VM preamplifier output	0	28	Contour gain control	I
5	Sub screen Ys input	1	29	Contour bias	I
6	Ys input	- 1	30	Secondary differential input	I
7	VM limiter amplifier input	1	31	Minute part gain control	I
8	VM limiter amplifier gain control	- 1	32	Post-correction primary differential output	0
9	VM limiter amplifier output	0	33	Minute part core ring control	I
10	Sub screen amplifier output	0	34	Minute part core ring bias	I
11	Sub screen amplifier gain control	1	35	Differential signal bias 1	I
12	Sub screen amplifier output	0	36	Contour, minute part separation level control	I
13	PR output	0	37	Differential signal bias 2	I
14	NC	-	38	Minute part limiter output	0
15	PB output	0	39	Y delay line switching switch 1	I
16	DSC large signal gain control	I	40	Y delay line switching switch 2	I
17	Pre-correction primary differential input	I	41	NC	_
18	NC	T -	42	GND	_
19	VCC	_	43	Clamp pulse input	I
20	DSC detection output	0	44	NC	_
21	DSC small signal gain control	1	45	Y input	I
22	DSC input	I	46	C delay line switching switch 1	I
23	DSC bias	1	47	PB input	I
24	Pre-correction primary differential output	0	48	C delay line switching switch 2	I

■ SAA7165WP (SUB VIDEO ASSY: IC4702)

VIDEO ENHANCEMENT D/A

Pin Assignment

Block Diagram



Pin No.	Pin Name	I/O	Function	
1	REFLY	I	Low reference of luminance DAC (connected to VSS A1)	
2	CY	I	Capacitor for luminance DAC (high reference)	
3	SUB	I	Substrate (connected to VSS A1)	
4	UV0	I	UV signal input bit UV7 (digital colour-difference signal)	
5	UV1	I	UV signal input bit UV6 (digital colour-difference signal)	
6	UV2	I	UV signal input bit UV5 (digital colour-difference signal)	
7	UV3	I	UV signal input bit UV4 (digital colour-difference signal)	
8	UV4	I	UV signal input bit UV3 (digital colour-difference signal)	
9	UV5	I	UV signal input bit UV2 (digital colour-difference signal)	
10	UV6	I	UV signal input bit UV1 (digital colour-difference signal)	
11	UV7	I	UV signal input bit UV0 (digital colour-difference signal)	
12	VDD D1	_	+5V digital supply voltage 1	
13	VSS D1	_	Digital ground 1 (0 V)	
14	Y0	I	Y signal input bit Y7 (digital luminance signal)	
15	Y1	I	Y signal input bit Y6 (digital luminance signal)	
16	Y2	I	Y signal input bit Y5 (digital luminance signal)	
17	Y3	I	Y signal input bit Y4 (digital luminance signal)	
18	Y4	I	Y signal input bit Y3 (digital luminance signal)	
19	Y5	I	Y signal input bit Y2 (digital luminance signal)	
20	Y6	I	Y signal input bit Y1 (digital luminance signal)	
21	Y7	I	Y signal input bit Y0 (digital luminance signal)	
22	AP	_	Connected to ground (action pin for testing)	
23	SP	_	Connected to ground (shift pin for testing)	
24	MC	I	Data cloack CREF (e.g.13.5MHz); at MC=HIGH, the LLC driver-by-two is inactive	
25	LLC	ı	Line-locked clock signal (LL27=27MHz)	
26	HREF	ı	Data clock for YUV data inputs (for active line 768Y or 640Y long)	
27	RESET	ı	Reset input (active LOW)	

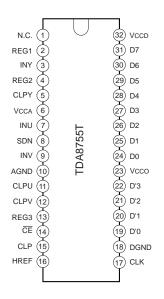
Pin No.	Pin Name	I/O	Function	
28	SCL	I	I ² C-bus clock line	
29	SDA	I	l²c-bus data line	
30	VSS D2	_	Digital ground 2(0V)	
31	VDD D2	_	+5V digital supply voltage 2	
32	VDD A1	_	+5V analog supply voltage for buffer of DAC 1	
33	(R-Y)	0	± (R-Y) output signal (analog signal)	
34	VSS A1	_	Analog ground 1(0V)	
35	VSS A2	_	Analog ground 2(0V)	
36	(B-Y)	0	± (B-Y) output signal (analog colour-difference signal)	
37	VDD A2	_	+5V analog supply voltage for buffer of DAC 2	
38	VSS A2	_	Analog ground 3 (0V)	
39	Υ	0	Y output signal (analog luminance signal)	
40	VDD A3	_	+5V analog supply voltage for buffer of DAC 3	
41	CUR	I	Current input for analog output buffers	
42	VDD A4	_	Supply and reference voltage for the three DAC S	
43	C UV	I	Capacitor for chrominance DAC S (high reference)	
44	REF L UV	I	Low reference of chrominance DAC S (connected to VSS A1)	

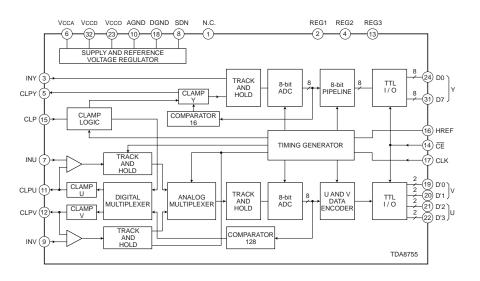
■ TDA8755T (SUB VIDEO ASSY: IC4703)

VIDEO A/D CONVERTER

Pin Assignment

Block Diagram





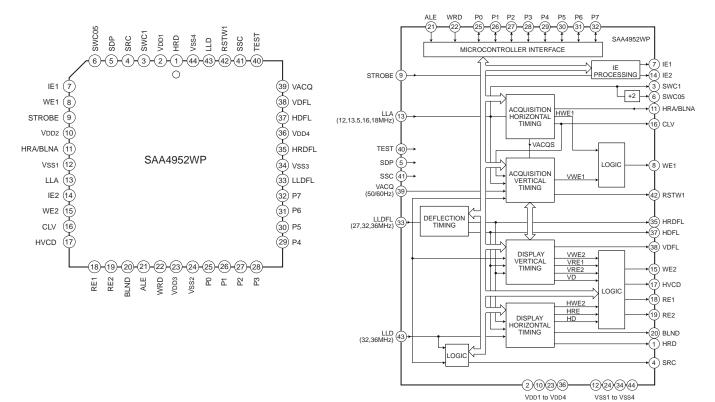
Pin No.	Pin Name	I/O	Function		
1	NC	_	Not connected		
2	REG1	I	Decoupling input (internal stabilization loop decoupling)		
3	INY	I	Y analog voltage input		
4	REG2	I	Decoupling input (internal stabilization loop decoupling)		
5	CLPY	0	Y clamp capacitor connection		
6	VCC A	_	Analog positive supply voltage (+5V)		
7	INU	I	U analog voltage input		
8	SDN	0	Stabilizer decoupling node and analog reference voltage (+3.35 V)		
9	INV	I	V analog voltage input		
10	AGND	_	Analog ground		
11	CLPU	0	U clamp capacitor connection		
12	CLPV	0	V clamp capacitor connection		
13	REG3	I	Decoupling input (internal stabilization loop decoupling)		
14	CE	I	Chip enable input (TTL level input active LOW)		
15	CLP	1	Clamp control input		
16	HREF	I	Horizontal reference signal		
17	CLK	I	Clock input		
18	DGND	_	Digital ground		
19	D'0	0	V data output; bit 0 (n-1)		
20	D'1	0	V data output; bit 1 (n)		
21	D'2	0	U data output; bit 0 (n-1)		
22	D'3	0	U data output; bit 1 (n)		
23	VCC O	_	Positive supply voltage for output stages (+5V)		
24	D0	0	Y data output; blt 0 (LSB)		
25	D1	0	Y data output; blt 1		
26	D2	0	Y data output; blt 2		
27	D3	0	Y data output; blt 3		
28	D4	0	Y data output; blt 4		
29	D5	0	Y data output; blt 5		
30	D6	0	Y data output; blt 6		
31	D7	0	Y data output; blt 7 (MSB)		
32	VCC D	_	Digital positive supply voltage (+5V)		

■ SAA4952WP (SUB VIDEO ASSY: IC4704)

MEMORY CONTROLLER

Pin Assignment

Block Diagram

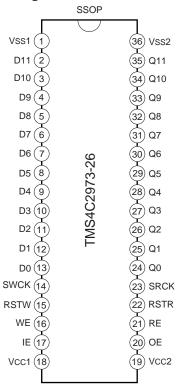


Pin No.	Pin Name	I/O	Function		
1	HRD	0	Horizontal reference signal output (display PLL)		
2	VDD 1		Supply voltage 1		
3	SWC1	0	Serial write clock output for memory 1		
4	SRC	0	Serial read clock output		
5	SDP	I	Select deflection processor input		
6	SWC05	0	Serial write clock output,SWC1 divided-by-2		
7	IE1	0	Input enable signal output (memory 1)		
8	WE1	0	Write enable signal output (memory 1)		
9	STROBE	I	Strobe signal input		
10	VCC 2	I —	Supply voltage 2		
44	HRA/BLNA	1/0	Horizontal reference signal output (acquisition part)/horizontal blanking signal input,reset for		
11	HRA/BLINA	I/O	horizontal acquisition counters(acquisition part)		
12	VSS 1	_	Ground 1		
13	LLA	I	Line- locked cloack signal input (acquisition part)		
14	IE2	0	Input enable signal output (memory 2)		
15	WE2	0	Write enable signal output (memory 2)		
16	CLV	0	Horizontal signal output (acquisition part)		
17	HVCD	0	Horizontal, vertical or composite blanking signal output (display part)		
18	RE1	0	Read enable signal output (memory 1)		

Pin No.	Pin Name	I/O	Function			
19	RE2	0	Read enable signal output (memory 2)			
20	BLND	0	Horizontal branking signal output (display part)			
21	ALE	1	Address latch enable signal input			
22	WRD	1	Wrirw/read data signal input			
23	VCC 2		Supply voltage 3			
24	VSS 2		Ground 2			
25	P0	I/O	Data input/output signal bit 0			
26	P1	I/O	Data input/output signal bit 1			
27	P2	I/O	Data input/output signal bit 2			
28	P3	I/O	Data input/output signal bit 3			
29	P4	I/O	Data input/output signal bit 4			
30	P5	I/O	Data input/output signal bit 5			
31	P6	I/O	Data input/output signal bit 6			
32	P7	I/O	Data input/output signal bit 7(MSB = Most Significant Bit)			
33	LLDFL	1	Line-locked clock signal input (deflection part)			
34	VSS 3	_	Ground 3			
35	HRDFL	0	Horizontal reference signal output (deflection part)			
36	VDD 4	_	Supply voltage 4			
37	HDFL	0	Horizontal synchronization signal output (deflection part)			
38	VDFL	0	Vertical synchronization signal output (deflection part)			
39	VACQ	- 1	Vertical synchronization signal input (deflection part)			
40	TEST	- 1	Test input			
41	SSC	- 1	Select signal clock system input			
42	RSTW1	0	Reset write signal output (memory 1)			
43	LLD	1	Line-locked clock signal input (display part)			
44	VSS 4		Ground 4			

■ TMS4C2973-26 (SUB VIDEO ASSY: IC4705, IC4706) 2.9M FIELD MEMORY

Pin Assignment



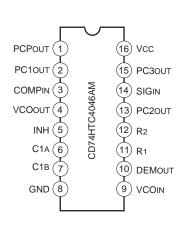
Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	Vss1	_	Ground	19	Vcc2	_	3.3V power supply voltage
2	D11	ı	Data input	20	OE	Ι	Output enable
3	D10	I	Data input	21	RE	Ι	Read enable
4	D9	I	Data input	22	RSTR	I	Serial read clock
5	D8	ı	Data input	23	SRCK	I	Reset read
6	D7	ı	Data input	24	Q0	0	Data output
7	D6	ı	Data input	25	Q1	0	Data output
8	D5	ı	Data input	26	Q2	0	Data output
9	D4	ı	Data input	27	Q3	0	Data output
10	D3	ı	Data input	28	Q4	0	Data output
11	D2	ı	Data input	29	Q5	0	Data output
12	D1	ı	Data input	30	Q6	0	Data output
13	D0	ı	Data input	31	Q7	0	Data output
14	SWCK	I	Serial write clock	32	Q8	0	Data output
15	RSTW	I	Reset write	33	Q9	0	Data output
16	WE	ı	Write enable	34	Q10	0	Data output
17	IE	I	Input enable	35	Q11	0	Data output
18	Vcc1	_	3.3V power supply voltage	36	Vss2		Ground

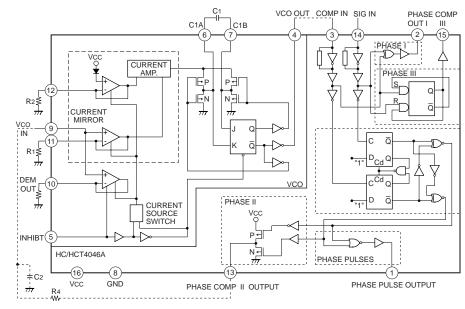
■ CD74HCT4046AM (SUB VIDEO ASSY: IC4713)

PLL IC

Pin Assignment

Block Diagram



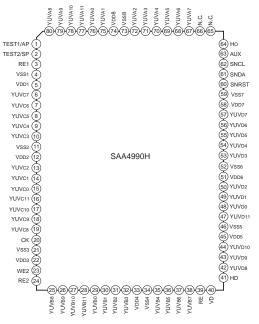


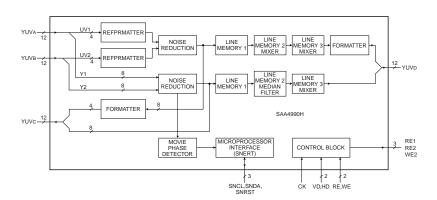
Pin No.	Pin Name	I/O	Function	Pin No.	Pin Name	I/O	Function
1	PCPOUT	_	Phase comparator pulse output	9	VCOIN	_	VCO input
2	PC1OUT	_	Phase comparator 1 output	10	DEMOUT	_	Demodulator output
3	COMPIN	- 1	Comparator input	11	R1	_	Resistor R1 connection
4	VCOOUT	_	VCO output	12	R2	_	Resistor R2 connection
5	INH	- 1	Inhibit input	13	PC2OUT	0	Phase comparator 2 output
6	C1A	_	Capacitor C1 connection A	14	SIGIN	I	Signal input
7	C1B	_	Capacitor C1 connection B	15	PC3OUT	_	Phase comparator 3 output
8	GND	_	Ground(0V)	16	Vcc	_	Positive supply voltage

■ SAA4990H (SUB VIDEO ASSY: IC4719)

PROZONIC IC

Pin Assignment Block Diagram





Pin No.	Pin Name	I/O	Function
1	TEST1/AP	ı	Action pin for testing to be connected to Vss
2	TEST2/SP	ı	Shift pin for testing to be connected to Vss
3	RE1	0	Read enable to FM1
4	VSS 1		Ground 1
5	VDD 1		Supply voltage 1
6	YUV C7	0	Y bit 7 to FM2
7	YUV C6	0	Y bit 6 to FM2
8	YUV C5	0	Y bit 5 to FM2
9	YUV C4	0	Y bit 4 to FM2
10	YUV C3	0	Y bit 3 to FM2
11	VSS 2		Ground 2
12	VDD 2		Supply voltage 2
13	YUV C2	0	Y bit 2 to FM2
14	YUV C1	0	Y bit 1 to FM2
15	YUV C0	0	Y bit 0 to FM2
16	YUV C11	0	UV bit 3 to FM2
17	YUV C10	0	UV bit 2 to FM2
18	YUV C9	0	UV bit 1 to FM2
19	YUV C8	0	UV bit 0 to FM2
20	CK	ı	Master clock,nominal 27 or 32 MHz
21	VSS 3	_	Ground 3
22	VDD 3		Supply voltage 3
23	WE2	0	Write enable to FM2
24	RE2	0	Read enable to FM2

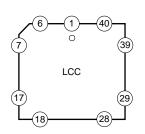
Pin No.	Pin Name	I/O	Function
25	YUV B8	I	UV bit 0 from FM2
26	YUV B9	ı	UV bit 1 from FM2
27	YUV B10	I	UV bit 2 from FM2
28	YUV B11	ı	UV bit 3 from FM2
29	YUV B0	ı	Y bit 0 from FM2
30	YUV B1	ı	Y bit 1 from FM2
31	YUV B2	ı	Y bit 2 from FM2
32	YUV B3	ı	Y bit 3 from FM2
33	VDD 4	_	Supply voltage 4
34	VSS 4	_	Ground 4
35	YUV B4	ı	Y bit 4 from FM2
36	YUV B5	ı	Y bit 5 from FM2
37	YUV B6	ı	Y bit 6 from FM2
38	YUV B7	ı	Y bit 7 from FM2
39	RE	ı	Master read enable
40	VD	ı	Field frequent reset, vertical display
41	HD	ı	Horizontal reference signal
42	YUV D8	0	UV bit 0
43	YUV D9	0	UV bit 1
44	YUV D10	0	UV bit 2
45	VDD 5		Supply voltage 5
46	VSS 5	_	Ground 5
47	YUV D11	0	UV bit 3
48	YUV D0	0	Y bit 0
49	YUV D1	0	Y bit 1
50	YUV D2	0	Y bit 2
51	VDD 6	_	Supply voltage 6
52	VSS 6	_	Ground 6
53	YUV D3	0	Y bit 3
54	YUV D4	0	Y bit 4
55	YUV D5	0	Y bit 5
56	YUV D6	0	Y bit 6
57	YUV D7	0	Y bit 7
58	VDD 7	_	Supply voltage 7
59	VSS 7	_	Ground 7
60	SNRST	ı	Field frequent reset from microcontroller;reset for SNERT interface
61	SNDA	I/O	Data for SNERT interface
62	SNCL	ı	Clock for SNERT interface
63	AUX	0	Spre output form line-sequencer
64	Но	0	Output hold to e.g.LC.display
65	NC	_	Not connected
66	NC	_	Not connected
67	YUV A7	ı	Y bit 7 from FM1
68	YUV A6	I	Y bit 6 from FM1
69	YUV A5	ı	Y bit 5 from FM1

Pin No.	Pin Name	I/O	Function
70	YUV A4	I	Y bit 4 from FM1
71	YUV A3	I	Y bit 3 from FM1
72	YUV A2	I	Y bit 2 from FM1
73	VSS 8	_	Ground 8
74	VDD 8	_	Supply voltage 8
75	YUV A1	ı	Y bit 1 from FM1
76	YUV A0	I	Y bit 0 from FM1
77	YUV A11	I	UV bit 3 from FM1
78	YUV A10	I	UV bit 2 from FM1
79	YUV A9	ı	UV bit 1 from FM1
80	YUV A8	I	UV bit 0 from FM1

■ PE6002A9 (SUB VIDEO ASSY: IC4720)

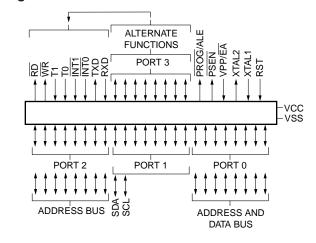
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Pin Assignment

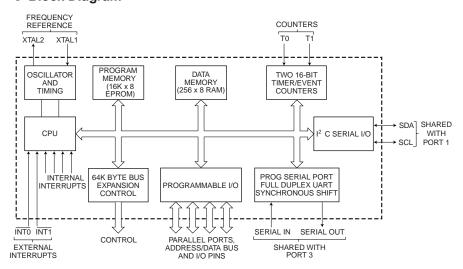


١	Pin	Function	Pin	Function
	1	N.C.	23	NC8
	2	P1.0	24	P2.0/A8
	3	P1.1	25	P2.1/A9
			_	
	4	P1.2	26	P2.2/A10
	5	P1.3	27	P2.3/A11
	6	P1.4	28	P2.4/A12
	7	P1.5	29	P2.5/A13
	8	P1.6/SCL	30	P2.6/A14
	9	P1.7/SDA	31	P2.7/A15
	10	RST	32	PSEN
	11	P3.0/RxD	33	ALE/PROG
	12	NC8	34	NC8
	13	P3.1/TXD	35	EA/VPP
	14	P3.2/INT0	36	P0.7/AD7
	15	P3.3/INT1	37	P0.6/AD6
	16	P3.4/T0	38	P0.5/AD5
	17	P3.5/T1	39	P0.4/AD4
	18	P3.6/WR	40	P0.3/AD3
	19	P3.7/RD	41	P0.2/AD2
		XTAL2		P0.2/AD2
	20		42	
	21	XTAL1	43	P0.0/AD0
	22	Vss	44	VCC

Logic



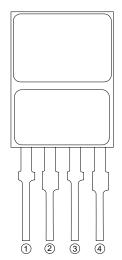
Block Diagram



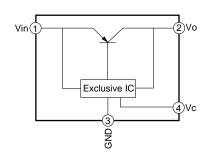
■ PQ05RD1B (SIGNAL ASSY: IC7007, IC7105)

REGULATOR

Pin Assignment



Block Diagram



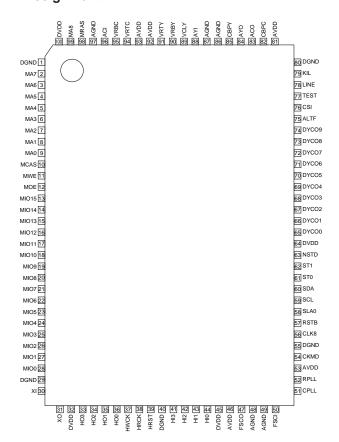
• Pin Function

Pin No.	Function						
1	DC input (Vin)	1					
2	DC output (Vo)	0					
3	GND	-					
4	ON/OFF control (Vc)	I					

■ uPD64081BGF-3BA (SIGNAL ASSY: IC7002)

3D Y/C SEPARATION IC

Pin Assignment

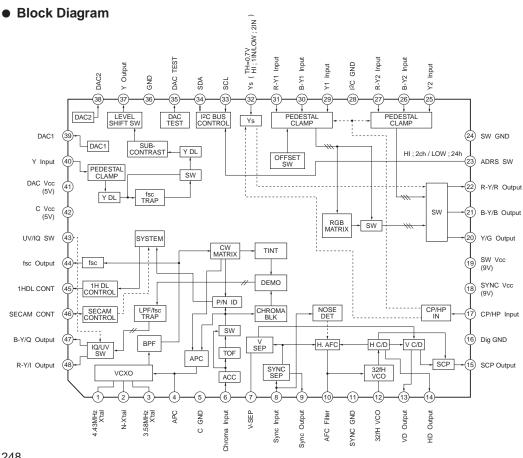


Pin No.	Pin Name	I/O	Function
1	DGND	_	Digital block ground
2	MA7	0	
3	MA6	0	
4	MA5	0	
5	MA4	0	
6	MA3	0	Address output for external EDO memory
7	MA2	0	
8	MA1	0	
9	MA0	0	
10	MCAS	0	CAS output for external EDO memory (Active low)
11	MWE	0	WE output for external EDO memory (Active low)
12	MOE	0	OE output for external EDO memory (Active low)
13	MIO15	I/O	
14	MIO14	I/O	
15	MIO13	I/O	
16	MIO12	I/O	
17	MIO11	I/O	
18	MIO10	I/O	
19	MIO9	I/O	
20	MIO8	I/O	Data input/output for external EDO memory
21	MIO7	I/O	
22	MIO6	I/O	
23	MIO5	I/O	
24	MIO4	I/O	
25	MIO3	I/O	
26	MIO2	I/O	
27	MIO1	I/O	
28	MIO0	I/O	
29	DGND	T -	fsc generator digital block ground
30	XI	1	fsc generator reference clock input (Connected to X'tal)
31	XO	0	fsc generator reference clock reversal output (Connected to X'tal)
32	DVDD	-	fsc generator digital block power
33	HO3 (MSB)-(LSB)	0	
34	HO2 (MSB)-(LSB)	0	External field memory data cutout (Open when set used)
35	HO1 (MSB)-(LSB)	0	External field memory data output (Open when not used)
36	HO0 (MSB)-(LSB)	0	
37	HWCK	0	Write clock output for external field memory (Open when not used)
38	HRCK	0	Read clock output for external field memory (Open when not used)
39	HRST	0	Reset signal output for external field memory (Open when not used)
40	DGND	_	Digital block ground
41	HI3 (MSB)-(LSB)	I	Input for external field memory (Connected to GND when not used)
42	HI2 (MSB)-(LSB)	I	Input for external field memory (Connected to GND when not used)
43	HI1 (MSB)-(LSB)	I	Input for external field memory (Connected to GND when not used)
44	HI0 (MSB)-(LSB)	I	Input for external field memory (Connected to GND when not used)
45	DVDD	_	Digital block power supply

Pin No.	Pin Name	I/O	Function
46	AVDD	_	fsc generator DAC block power supply
47	FSCO	_	fsc generator fsc output
48	AGND	_	fsc generator DAC block ground
49	AGND	_	8fsc-PLL ground
50	FSCI	_	8fsc-PLL fsc input
51	CPLL	_	8fsc-PLL filter output (Opened or connected to GND)
52	RPLL	_	8fsc-PLL frequency compensation output
53	AVDD	_	8fsc-PLL power supply
54	CKMD	ı	Clock mode test input (Opened or connected to GND)
55	DGND	_	Digital block ground
56	CLK8	0	8fsc clock output
57	RSTB	ı	System reset input (Active Low) (Inputs active low reset pulses from outside)
58	SLA0	ı	I ² C bus slave address selection input (L:B8/B9h, H:BA/BBh)
59	SCL	ı	I ² C bus clock input (Connected to system SCL line)
60	SDA	I/O	I ² C bus data input/output (Connected to system SDA line)
61	ST0	0	Internal signal monitor output
62	ST1	0	Internal signal monitor output
63	NSTD	0	Non-standard detection monitor output (L:Standard determination, H:Non-standard determination)
64	DVDD	_	Digital block power supply
	DYCO0		
65	(LSB)-(MSB)	I/O	
	DYCO1		
66	(LSB)-(MSB)	I/O	
	DYCO2		
67	(LSB)-(MSB)	I/O	
	DYCO3		
68	(LSB)-(MSB)	I/O	
	DYCO4		
69	(LSB)-(MSB)	I/O	EXADINS=0, digital YC signal alternate output
	DYCO5		EXADINS=1, external Y-ADC data input
70	(LSB)-(MSB)	I/O	
	DYCO6		
71	(LSB)-(MSB)	I/O	
	DYCO7		
72	(LSB)-(MSB)	I/O	
	DYCO8		
73	(LSB)-(MSB)	I/O	
	DYCO9		
74	(LSB)-(MSB)	I/O	
			EXADINS=0, digital YC signal alternate flag output (LY, HC)
75	ALTF	0	EXADINS=1, external Y-ADC 4fsc clock output
76	CSI	1	Composite sync input (Active low)
77	TEST	ı	IC selection test pin (Opened or connected to GND)
78	LINE	i	Forced inter-line processing selection input (L:Normal processing, H:Forced inter-line processing)
79	KIL	<u>'</u>	External killer input (L:Normal processing, H:Forced YC separation stop)
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pin No.	Pin Name	I/O	Function
80	DGND	_	Digital block ground
81	AVDD	_	Y-DAC, C-DAC power supply
82	CBPC	0	C-DAC phase compensation output
83	ACO	0	C-DAC analog C signal output
84	AYO	0	Y-DAC analog Y signal output
85	CBPY	0	Y-DAC phase compensation output
86	AGND	_	Y-ADC, C-DAC ground
87	AGND	_	Y-DAC ground
88	AYI	I	Y-ADC analog composite signal/Y signal input
89	VCLY	0	Y-ADC clamp potential output
90	VRBY	0	Y-ADC bottom reference voltage output
91	VRTY	0	Y-ADC top reference voltage output
92	AVDD	_	Y-ADC, C-ADC power supply
93	AVDD	_	Y-ADC, C-ADC power supply
94	VRTC	0	C-ADC top reference voltage output
95	VRBC	0	C-ADC bottom reference voltage output
96	ACI	I	C-ADC analog C signal input
97	AGND	_	C-ADC ground
98	MRAS	0	RAS output for external EDO memory (Active low)
99	MA8	0	Address output for external EDO memory
100	DVDD	_	Digital block power supply

■ TA1270AF (SIGNAL ASSY: IC7100, IC7300) **COLOR DEMODULATION SYNC SEPARATION IC**



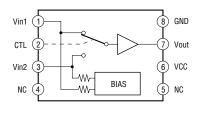
Pin No.	Pin Name	I/O	Function	I/O Signal
1	4.43 MHz X'tal	ı	Connected to X'tal. Oscillation frequency f0 and frequency	
			adjustment range can be changed in series capacity and parallel	DC 4.0V
2	N-X'tal	I	capacity respectively.	90 mVp-p
3	3.58 MHz X'tal	ı	Frequency adjustment range for oscillation frequency f0 with	
			series capacity can be changed to parallel capacity.	
4	APC	ı	Connected to the chroma demodulation APC filter.	DC
	0.0110		VCXO oscillation frequency is determined by the voltage of this pin.	
5	C GND	_	Chroma processing circuit GND pin.	_
6	Chroma input	I	Chroma input pin. Inputs Y/C separated chroma signal.	Burst signal 300mVp-p 2.5V GND
7	V-SEP	I	Connected to the filter for vertical sync separation.	DC 6.4V
8	Sync input	I	Sync separation circuit input.	1Vp-p 2.85V GND
9	Sync output	0	Outputs the sync signal separated in the sync separation circuit.	5VGND
10	AFC filter		Connected to the filter for horizontal AFC.	DC
10	AFC liller	•	Horizontal output frequency is determined by the voltage of this pin.	DC
11	SYNC GND	_	GND pin of the sync processing circuit.	_
12	32fH VCO	0	Connected to the ceramic oscillator for horizontal oscillation.	130mVp-p
13	VP output	0	Vertical pulse output.	5V
14	HD output	0	Outputs the HD pulse imposed with AFC.	

Pin No.	Pin Name	I/O	Function	I/O Signal
15	SCP output	0	Outputs the SCP (Sand Castle Pulse). The output signals are clamp pulse, horizontal blanking pulse, and vertical blanking.	8.3V
16	Dig GND	_	Logic block GND pin.	-
17	CP/HP input	ı	Input pin for the CP/HP pulse for operating the SW circuit. CP is used as the clamp pulse and HP as the blanking pulse.	3.5V 1V ()
18	SYNC Vcc	_	VCC pin for sync processing block and SW block.	
19	SW Vcc	_	Connected to 9V (standard).	-
20	Y/G output	0		
21	B-Y/B output	0	Outputs Y/B-Y/R-Y or R/G/B.	
22	R-Y/R output	0	Switches the YUV/RGB output by bus setting,	
23	ADRS SW	ı	Pin for switching the slave address. GND - 24H, VCC - 2CH	2CH —— 0.7V 24H —— GND
24	SW GND	 	GND pin for switch block.	-
25	Y2 input	I		
26	B-Y2 input	ı	Input pin for Y2/B-Y2/R-Y2 (YUV2 input) or R2/G2/B2.	
27	R-Y2 input (YUV2)	I		
28	I ² C GND	_	I ² C block GND pin.	-
29	Y1 input	I		
30	B-Y1 input	I	Input pin for Y1/B-Y1/R-Y1 (YUV1 input) or R1/G1/B1.	
31	R-Y1 input (YUV1)	I		
32	Ys	I	High speed SW for switching the input of pins 25, 26, 27 (YUV2) and 29, 30, 31 (YUV1). Threshold is 0.7V.	YUV1 0.7V YUV2 GND
33	SCL	I	SCL pin for I ² C bus.	-
34	SDA	I/O	SDA pin for I ² C bus.	-
35	DAC TEST	0	DAC monitor pin for IC shipping test.	-
36	GND	_	GND pin.	_
37	Y output	0	Outputs the Y signal passing through the fsc TRAP (can be turned ON/OFF by BUS) and Y delay line circuit.	1Vp-p 2V GND
38	DAC2	0	1 hit DAC output nin	
39	DAC1	0	1 bit DAC output pin.	-

Pin No.	Pin Name	I/O	Function	I/O Signal
40	Y input	1	Input pin for composite video signal or Y signal.	1Vp-p 12.5V GND
41	DAC Vcc	_	VCC pin for DAC block and chroma processing block.	
42	C Vcc	_	Connected to 5V (standard).	_
43	UV/IQ SW	I	Switches between UV demodulation and IQ demodulation. UV demodulation is set when this pin is open and IQ demodulation is set when GND.	UV 0.7V IQ 0
44	fsc output	0	Outputs the X'tal oscillation. The pin voltage becomes high only when 3.58 NTSC is received.	AC; 0.6Vp-p DC; 3.58NTSC: 3.2V Others: 1.4V
45	1HDL CONT	0	Outputs the PAL/SECAM/NTSC differentiation results.	4.3V ;PAL 2.5V ; SECAM 0V ; NTSC
46	SECAM CONT	I/O	Input/output pin to control the SECAM demodulation IC. Determined as SECAM when more than 250 @u@A current is pulled from this pin.	When PAL/NTSC : 4.0V When SECAM (White/black): 0.75V
47	B-Y/Q output	0	The B-Y (U) signal or Q signal is output. Incorporates the LPF for eliminating the carrier inside.	DC ; 2.5V Rainbow color bar ; 360 mVp-p
48	R-Y/I output	0	Outputs the R-Y (V) signal or I signal. Incorporates an LPF for eliminating carrier.	DC ; 2.5V Rainbow color bar ; 360 mVp-p

■ NJM2233BM (SIGNAL ASSY: IC7103, IC7303, IC7305, IC7306) VIDEO SW

• Block Diagram



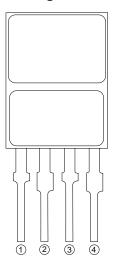
• Control Input – Output Signal

CTL	Function
L	Vin1
Н	Vin2

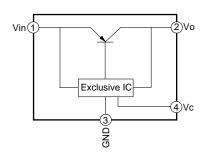
■ PQ09RD1B (SIGNAL ASSY: IC7106)

REGULATOR

Pin Assignment



Block Diagram



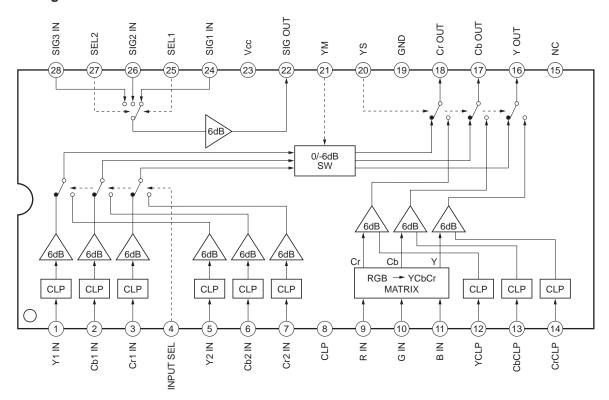
Pin Function

Pin No.	Function	I/O
1	DC input (Vin)	Ι
2	DC output (Vo)	0
3	GND	-
4	ON/OFF control (Vc)	I

■ CXA2119M (SIGNAL ASSY: IC7250) (For SIGNAL ASSY AWV1725)

Y COLOR DIFFERENCE I/F SW

Block Diagram



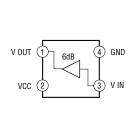
Pin No.	Pin Name	I/O	Function		
1	Y1 IN	I	Pin for inputting the YCbCr signal.		
2	Cb1 IN	1	Inputs the YCbCr specifications (0.7 Vp-p for 100% color bar) signal.		
3	Cr1 IN	ı	The pedestal level of the input signal is clamped at 4V.		
			Pin for controlling the selection SW of 2-line YCbCr input.		
4	INPUT SEL	ı	High:Selects the Y1, Cb1, Cr1 input, Low:Selects the Y2, Cb2, Cr2 input		
			VILMAX=1V, VIHMIN=3V		
5	Y2 IN	I	Pin for inputting the YCbCr signal.		
6	Cb2 IN	I	Inputs the YCbCr specifications (0.7 Vp-p for 100% color bar) signal.		
7	Cr2 IN	I	The pedestal level of the input signal is clamped at 4V.		
			Pin for inputting the clamp pulse.		
8	CLP	ı	High:CLP ON, Low:CLP OFF		
			VILMAX=2.5V, VIHMIN=4V		
9	R IN	I	Pin for inputting the R signal.		
10	G IN	- 1	Pin for inputting the G signal.		
11	B IN	I	Pin for inputting the B signal.		
12	YCLP	- 1	Capacity connection pin for clamping the Y signal made from the RGB signal.		
13	CbCLP	I	Capacity connection pin for clamping the Cb signal made from the RGB signal.		
14	CrCLP	- 1	Capacity connection pin for clamping the Cr signal made from the RGB signal.		
15	NC	I	NC pin.		
16	Y OUT	0	Output pin of Y signal. The output pedestal level is 3.8V.		
17	Cb OUT	0	Output pin of Cb signal. The output pedestal level is 3.8V.		
18	Cr OUT	0	Output pin of Cr signal. The output pedestal level is 3.8V.		
19	GND	_	GND pin.		
			YSSW control pin.		
20	YS	ı	High:Selects the RGB input, Low:Selects the YCbCr input		
20	10	'	VILMAX=1V, VIHMIN=3V		
			Pin for controlling YMSW.		
24	YM	ı	High:Selects the -6 dB signal., Low:Selects the 0 dB signal.		
2-7	T IVI	!	VILMAX=1V, VIHMIN=3V		
			Output pin for SIG1, SIG2, and SIG3.		
22	SIG OUT	0	Outputs the 6dB signal of the input signal.		
			The APL of the signal becomes 4.4V when output.		
23	Vcc	_	Vcc pin.		
24	SIG1 IN	ı	Pin for inputting the composite video signal.		
		·	Inputs the 1Vp-p (100% white including Sync) signal via the capacity.		
			Control pin for the output selection SW of the 3 input composite video signals.		
			SEL1 SEL2 SIG OUT		
			Low Low SIG1		
25	SEL1	I	High Low SIG2		
			Low High SIG3		
			High High Prohibited		
			VILMAX=0.5V, VIHMIN=3.5V		
26	SIG2 IN	ı	Pin for inputting the composite video signal.		
			Inputs the 1Vp-p (100% white including Sync) signal via the capacity.		

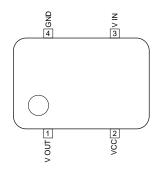
Pin No.	Pin Name	I/O	Function			
			Control pin f	or the outpu	t selection SW	/ of the 3 input composite video signals.
			SEL1	SEL2	SIG OUT	
			Low	Low	SIG1	
27	27 SEL2	I	High	Low	SIG2	
			Low	High	SIG3	
			High	High	Prohibited	
			VILMAX=0.5	V, VIHMIN=	-3.5V	
20	SIG3 IN	I	Pin for input	ting the com	posite video s	ignal.
28			Inputs the 1	Vp-p (100%	white including	g Sync) signal via the capacity.

■ MM1031XM (SIGNAL ASSY: IC7301, IC7304, IC7500, IC7605)

VIDEO AMP

Block Diagram



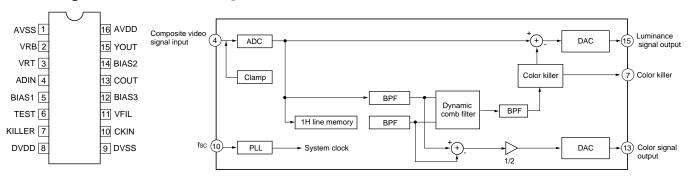


■ TC90A45F (SIGNAL ASSY: IC7307)

2 LINE DIGITAL Y/C SEP IC

Pin Assignment

Block Diagram



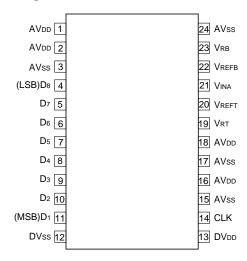
• Pin Function

Pin No.	Pin Name	I/O	Function	
1	AVSS	_	Analog GND	
2	VRB	_	Reference pin for ADC.	
3	VRT	_	Reference pin for ADC.	
4	ADIN	- 1	Composite video signal input pin.	
5	BIAS1	_	Bias pin for ADC.	
6	TEST	_	TEST pin. Connected to the digital GND.	
			Killer circuit setting pin.	
_	7 KILLER		When set to H level, it will output signals without Y/C separation.	
'		'	Use this pin when inputting B/W signals.	
			H: B/W mode (Y/C separation OFF), L: Normal Y/C separation mode	
8	DVDD	_	Digital power supply (+5V)	
9	DVSS	_	Digital GND	
10	CKIN	- 1	Clock input.	
11	VFIL	_	Connected to the VCO filter.	
12	BIAS3	_	DAC bias pin.	
13	COUT	0	C signal output	
14	BIAS2	_	DAC bias pin.	
15	YOUT	0	Y signal output	
16	AVDD	_	Analog power supply (+5V)	

■ MB40C568HPFV (SIGNAL ASSY: IC7503)

A/D CONVERTER

• Pin Assignment



PRO-700HD

Pin Function

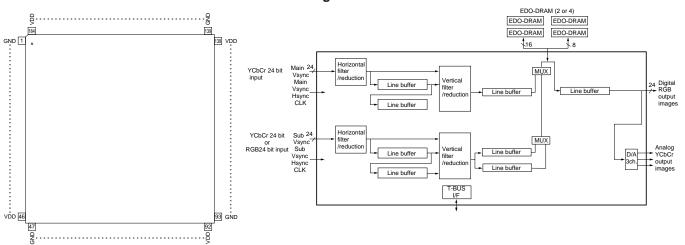
Pin No.	Pin Name	I/O	Function	
1	AVDD	_	Analog power supply pin (+5 V)	
2	AVDD	_	Analog power supply pin (+5 V)	
3	AVss	_	Analog power ground pin (0 V)	
4	D8	0		
5	D7	0		
6	D6	0		
7	D5	0	Digital output pins. D1: MSB, D8: LSB	
8	D4	0	Digital output pins. D1. W3B, D6. E3B	
9	D3	0		
10	D ₂	0		
11	D1	0		
12	DVss	_	Digital power ground pin (0 V)	
13	DVDD	_	Digital power supply pin (+3 or +5 V)	
14	CLK	I	Clock input pin	
15	AVss	_	Analog power ground pin (0 V)	
16	AVDD	_	Analog power supply pin (+5 V)	
17	AVss	_	Analog power ground pin (0 V)	
18	AVDD	_	Analog power supply pin (+5 V)	
19	VRT	I	Reference voltage input pin (3 V)	
20	VREFT	I	Reference voltage input pin (1 V)	
21	VINA	1	Analog input pin. Input range: VRB to VRT (2 Vp-p between 0.5 to 4 V)	
22	VREFB	0	Reference voltage output pin. When connected to VRB, the pin generates 0.2 x AVDD (1 V).	
23	VRB	I	Reference voltage input pin (1 V)	
24	AVss	_	Analog power ground pin (0 V)	

■ MA07132 (SIGNAL ASSY: IC7700)

TWIN PICTURE LSI

Pin Assignment

Block Diagram



Pin No.	Pin Name	I/O	Function	
1	GND	_		
2	Y7MI	1		
3	Y6MI	1		
4	Y5MI	- 1		
5	Y4MI	- 1		
6	Y3MI	1	Main screen Y signal input	
7	Y2MI	ı		
8	Y1MI	ı		
9	Y0MI	1		
10	CB7MI	I		
11	CB6MI	1		
12	CB5MI	1		
13	CB4MI	1		
14	CB3MI	1	Main screen Cb signal input	
15	CB2MI	1		
16	CB1MI	1		
17	CB0MI	1		
18	CR7MI	1		
19	CR6MI	1		
20	CR5MI	1	Main screen Cr signal input	
21	CR4MI	1		
22	CR3MI	1		
23	VDD	_		
24	GND	_		
25	CR2MI	1		
26	CR1MI	1	Main screen Cr signal input	
27	CR0MI	1		
28	CKMI	1	Main screen sync clock (32.5 MHz), Used as internal system clock.	
29	HSMI	1	Main screen horizontal sync signal input	
30	VSMI	ı	Main screen vertical sync signal input	
31	CLMPMO	0	Clamp pulse output for main screen	
32	CK2MO	0	Clock output by frequency dividing CKMI	
33	GND	_		
34	HSMO	0	Horizontal sync signal output after elimination of half pulse to main screen horizontal AFCIC	
35	CPGDMO	0	Copy guard signal output for main screen	
36	HREFMO	0	fH reference signal output to main screen horizontal AFCIC	
37	СРМҮО	0	Y signal clamp offset PWM output for main screen	
38	СРМСВО	0	Cb signal clamp offset PWM output for main screen	
39	CPMCRO	0	Cr signal clamp offset PWM output for main screen	
40	Y7SI	ı		
41	Y6SI	ı		
42	Y5SI	ı	National Land (Defined Consult)	
43	Y4SI	ı	Y signal input/R signal input for sub screen (When inputting VGA)	
44	Y3SI	ı		
45	Y2SI	I		

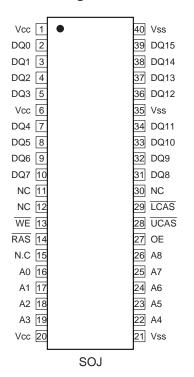
Pin No.	Pin Name	I/O	Function
46	VDD	_	
47	GND	_	
48	Y1SI	1	
49	YOSI	1	Y signal input/R signal input for sub screen (When inputting VGA)
50	CB7SI	ı	
51	CB6SI	1	
52	CB5SI	1	
53	CB4SI	ı	
54	CB3SI	ı	Cb signal input/G signal input for sub screen (When inputting VGA)
55	CB2SI	I	
56	CB1SI	I	
57	CB0SI	ı	
58	CR7SI	I	
59	CR6SI	I	
60	CR5SI	- 1	
61	CR4SI	I	Craignal input/P aignal input for our agrees (Alban inputting MCA)
62	CR3SI	1	Cr signal input/B signal input for sub screen (When inputting VGA)
63	CR2SI	ı	
64	CR1SI	I	
65	CR0SI	ı	
66	HSSI	I	Sub screen horizontal sync signal input
67	VSSI	I	Sub screen vertical sync signal input
68	CKSI	I	Sync clock for sub screen (32.5 MHz)
69	VDD	_	
70	GND	_	
71	CK2SO	0	Clock output by frequency dividing CKSI (No frequency dividing for VGA images)
72	HSSO	0	Horizontal sync signal output after eliminating half pulse to sub screen horizontal AFCIC
73	HREFSO	0	fH reference signal output to sub screen horizontal AFCIC
74	CPSYO	0	Y signal/R signal clamp offset PWM output for sub screen
75	CPSCBO	0	Cb signal/G signal clamp offset PWM output for sub screen
76	CPSCRO	0	Cr signal/B signal clamp offset PWM output for sub screen
77	CLMPSO	0	Clamp pulse output for sub screen
78	R70	0	
79	R6O	0	
80	R5O	0	
81	R4O	0	Display screen digital R signal output
82	R3O	0	
83	R2O	0	
84	R10	0	
85	R0O	0	
86	CPGDSO	0	Copy guard signal output for sub screen
87	G70	0	
88	G6O	0	
89	G5O	0	Display screen digital G signal output
90	G40	0	
91	G3O	0	

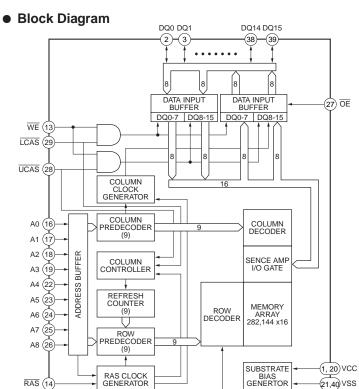
93 94 95 96	VDD GND G2O		
94 95 96			
95 96	G2O		
96		0	
	G10	0	Display screen digital G signal output
97	G0O	0	
	WCKO	0	External D/A -C clock output for RGB output
98	GND	_	
99	B7O	0	
100	B6O	0	
101	B5O	0	
102	B4O	0	Disabase and Private Beriman and and
103	B3O	0	Display screen digital B signal output
104	B2O	0	
105	B10	0	
106	B0O	0	
107	TMC1I	ı	Test input (Normally LOW input)
108	TBUSD	I/O	Tbus DATA signal input/output
109	TMC2I	ı	Test input (Normally LOW input)
110	TBUSPI	1	Tbus PERIOD signal input
111	TBUSCI	ı	Tbus CLOCK signal input
112	RSTI	ı	Power on reset input
113	TEST2I	ı	Test input (Normally LOW input)
114	TEST1I	T I	Test input (Normally LOW input)
115	VDD	_	
116	GND	_	
117	N.C	_	
118	AVDD	_	
119	VOY	0	Display screen analog Y signal output
120	VOCB	0	Display screen analog Cb signal output
121	VOCR	0	Display screen analog Cr signal output
122	AGND	_	
123	AGND	_	
124	N.C		
125	VDD	_	
126	GND	_	
	A8O	0	
	A7O	0	
129	A6O	0	Address bus of DRAM for multi window
	A5O	0	
	VDD		
	GND		
	A4O	0	
134	A3O	0	
	A2O	0	Address bus of DRAM for multi window
	A10	0	
	A0O	0	

Pin No.	Pin Name	I/O	Function
138	VDD	-	
139	GND	_	
140	CASB1O	0	LCAS, UCAS to DRAM 1 for multi window
141	GND	_	
142	CASB2O	0	LCAS, UCAS to DRAM 2 for multi window
143	GND	-	
144	RASB1O	0	RAS to DRAM 1 for multi window
145	VDD	_	
146	GND	† <u>-</u>	
147	RASB2O	0	RAS to DRAM 2 for multi window
148	GND	_	
149	WEB10	0	Write enable signal to DRAM 1 for multi window
150	OEB1O	0	Output enable signal to DRAM 1 for multi window
151	WEB2O	0	Write enable signal to DRAM 2 for multi window
152	OEB2O	0	Output enable signal to DRAM 2 for multi window
153	VDD	 -	
154	GND	_	
155	YSO	0	Digital RGB output range signal
156	D23IO	I/O	
157	D22IO	I/O	
158	D21IO	I/O	Data bus of DRAM for multi window
159	D20IO	I/O	
160	D19IO	I/O	
161	VDD		
162	GND	<u> </u>	
163	D18IO	I/O	
164	D17IO	I/O	
165	D16IO	I/O	
166	D15IO	I/O	Data bus of DRAM for multi window
167	D14IO	I/O	
168	D13IO	I/O	
169	D12IO	I/O	
170	GND		
171	D11IO	I/O	
172	D10IO	I/O	
173	D9IO	I/O	
174	D8IO	I/O	Data bus of DRAM for multi window
175	D7IO	I/O	
176	D6IO	I/O	
177	GND	-	
178	D5IO	I/O	
179	D4IO	I/O	
180	D3IO	I/O	
181	D2IO	I/O	Data bus of DRAM for multi window
182	D1IO	I/O	
183	DOIO	I/O	
184	VDD	-	
		1	

■ HY514264BJC-50A (SIGNAL ASSY: IC7003, IC7701, IC7702) 4M DRAM

• Pin Assignment



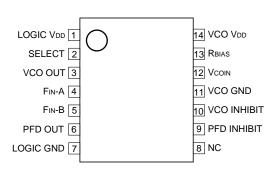


Pin No.	Pin Name	Function	I/O	Pin No.	Pin Name	Function	I/O
1	Vcc	Power (+5V)	_	21	Vss	Ground	_
2	DQ0	Data I/O	I/O	22	A4	Address Input	I
3	DQ1	Data I/O	I/O	23	A5	Address Input	I
4	DQ2	Data I/O	I/O	24	A6	Address Input	I
5	DQ3	Data I/O	I/O	25	A7	Address Input	I
6	Vcc	Power (+5V)	_	26	A8	Address Input	I
7	DQ4	Data I/O	I/O	27	ŌĒ	Output Enable	0
8	DQ5	Data I/O	I/O	28	UCAS	Column Address Strobe	I
9	DQ6	Data I/O	I/O	29	<u>LCAS</u>	Column Address Strobe	ı
10	DQ7	Data I/O	I/O	30	NC		_
11	NC		_	31	DQ8	Data I/O	I/O
12	NC		_	32	DQ9	Data I/O	I/O
13	WE	Write Enable	ı	33	DQ10	Data I/O	I/O
14	RAS	Row Address Strobe	ı	34	DQ11	Data I/O	I/O
15	NC		_	35	Vss	Ground	_
16	A0	Address Input	ı	36	DQ12	Data I/O	I/O
17	A1	Address Input	ı	37	DQ13	Data I/O	I/O
18	A2	Address Input	I	38	DQ14	Data I/O	I/O
19	A3	Address Input	I	39	DQ15	Data I/O	I/O
20	Vcc	Power (+5V)	_	40	Vss	Ground	_

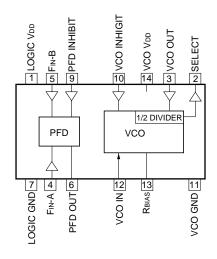
■ TLC2932IPW (SIGNAL ASSY: IC7703, IC7704)

PLL IC

Pin Assignment



Block Diagram

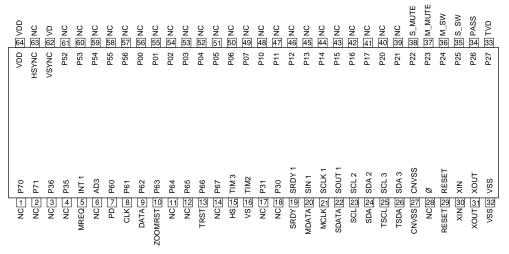


Pin No.	Pin Name	I/O	Function
	LOGIC VDD		Pin which supplies power voltage to the internal logic circuit. Should be completely separated
1	I LOGIC VDD		from the VCO power voltage supply pin.
2	SELECT		VCO output frequency 1/2 divider select pin. By controlling this pin using external logic, the
	SELECT	0	VCO output frequency can be frequency divided by 1/2.
3	VCO OUT	0	VCO output pin. Set to level "L" when inhibited.
			2-input pin for detecting the edge difference between the reference frequency (REF-IN) and
4	Fin-A	1	frequency from the external counter. Normally, the 1REF-IN is input to pin FIN-A while the
			divided frequency and doubled frequency from the external counter is input to pin FIN-B.
			2-input pin for detecting the edge difference between the reference frequency (REF-IN) and
5	Fin-B	ı	frequency from the external counter. Normally, the 1REF-IN is input to pin FIN-A while the
		divided frequency and doubled frequency from the external counter is input to pin FIN-B.	
6	PFD OUT	0	PFD (phase frequency detector) output pin. Can be fixed at high impedance.
7	LOGIC GND		Internal logic circuit ground pin.
8	NC		Internal unconnected pin.
9	PFD INHIBIT	1	PFD inhibit function control pin.
10	VCO INHIBIT	1	VCO inhibit function control pin.
11	VCO GND		VCO ground pin.
12	Vcoin	T .	VCO control voltage input pin. Normally, PLL inputs the VCO oscillation control voltage from
12	VCOIN	'	the LPF configured externally.
			Bias resistance connection pin for setting the VCO oscillation frequency. Connects the bias
13	RBIAS	1	resistor between this pin and the power line when supplying bias for oscillation operations of
			the internal VCO and for setting and adjusting the oscillation frequency.
14	VCO VDD		VCO power voltage supply pin. This should be completely separated from the power voltage
14	טטע טטע	-	pin of internal logic.

■ PD5499A (SIGNAL ASSY: IC7800)

CONTROL µ-COM

Pin Assignment



Pin No.	Pin Name	I/O	Function	
1	NC	I	Unused	
2	NC	I	Unused	
3	NC	ı	Unused	
4	NC	1	Unused	
5	MREQ	1	M-S serial main request input	
6	NC	1	Unused	
7	PD	0	T bus period output	
8	CLK	0	T bus clock output	
9	DATA	0	T bus clock output	
10	ZOOMRST	0	2-screen zoom IC reset output	
11	NC	1	Unused	
12	NC	1	Unused	
13	TRST	0	TVGP+ reset output	
14	NC	ı	Unused	
15	HS	ı	Video horizontal sync signal detection input	
16	VS	I	Video vertical sync signal detection input	
17	NC	ı	Unused	
18	NC	1	Unused	
19	SRDY	0	M-S serial sub ready output	
20	MDATA	ı	M-S serial main data input	
21	MCLK	ı	M-S serial main clock input	
22	SDATA	0	M-S serial sub data output	
23	SCL	0	IIC bus clock output	
24	SDA	I/O	IIC bus data input/output	
25	TSCL	0	TVGP+ IIC bus clock output	
26	TSDA	I/O	TVGP+ IIC bus data input/output	
27	CNVSS	I	Processor mode switching input	
28	NC	0	Timing signal output	

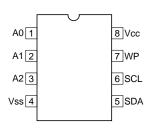
PRO-700HD

Pin No.	Pin Name	I/O	Function
29	RESET	I	Reset input
30	XIN	ı	System clock input
31	XOUT	0	System clock output
32	VSS	ı	Power supply input (GND)
33	TVD	0	TVGP+ vertical sync signal output
34	PASS	0	1-screen through switching output
35	S_SW	0	Sub composite /S switching output
36	M_SW	0	Main video/EPG switching output
37	M_MUTE	0	Main video deletion output
38	S_MUTE	0	Sub video deletion output
39	NC	0	Unused (Fixed at "L" output)
40	NC	0	Unused (Fixed at "L" output)
41	NC	0	Unused (Fixed at "L" output)
42	NC	0	Unused (Fixed at "L" output)
43	NC	0	Unused (Fixed at "L" output)
44	NC	0	Unused (Fixed at "L" output)
45	NC	0	Unused (Fixed at "L" output)
46	NC	0	Unused (Fixed at "L" output)
47	NC	0	Unused (Fixed at "L" output)
48	NC	0	Unused (Fixed at "L" output)
49	NC	0	Unused (Fixed at "L" output)
50	NC	0	Unused (Fixed at "L" output)
51	NC	0	Unused (Fixed at "L" output)
52	NC	0	Unused (Fixed at "L" output)
53	NC	0	Unused (Fixed at "L" output)
54	NC	0	Unused (Fixed at "L" output)
55	NC	0	Unused (Fixed at "L" output)
56	NC	0	Unused (Fixed at "L" output)
57	NC	0	Unused (Fixed at "L" output)
58	NC	0	Unused (Fixed at "L" output)
59	NC	0	Unused (Fixed at "L" output)
60	NC	0	Unused (Fixed at "L" output)
61	NC	0	Unused (Fixed at "L" output)
62	VD	I	TVGP+ VD1 signal input
63	NC	I	Unused (Fixed at "L" output)
64	VDD	I	Power input (+5V)

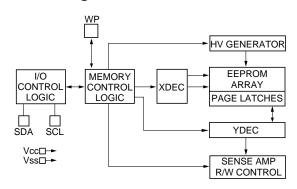
■ 24LC08B(I)SN (SIGNAL ASSY: IC7802)

8K EEPROM

Pin Assignment



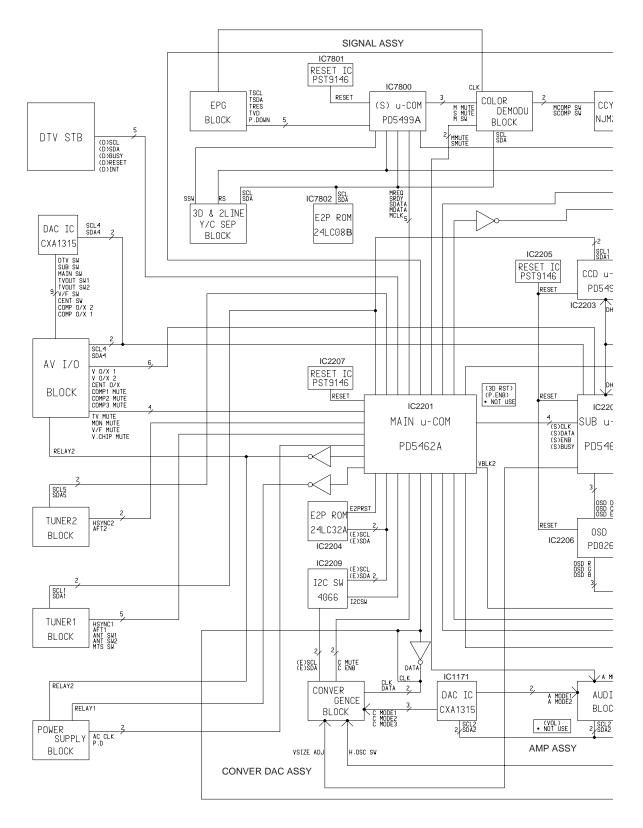
Block Diagram

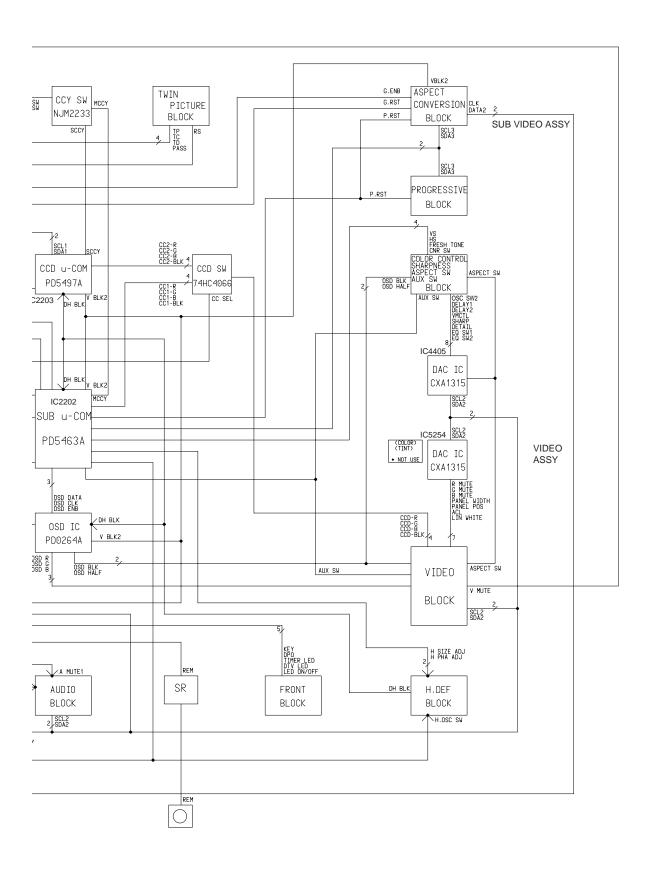


Pin No.	Pin Name	I/O	Function
1	A0	I	No Internal Connection
2	A1	1	No Internal Connection
3	A2	I	No Internal Connection
4	Vss	_	Ground
5	SDA	I/O	Serial Address/Data I/O
6	SCL	- 1	Serial Clock
7	WP	I	Write Protect Input
8	Vcc	_	+4.5V to 5.5V Power Supply

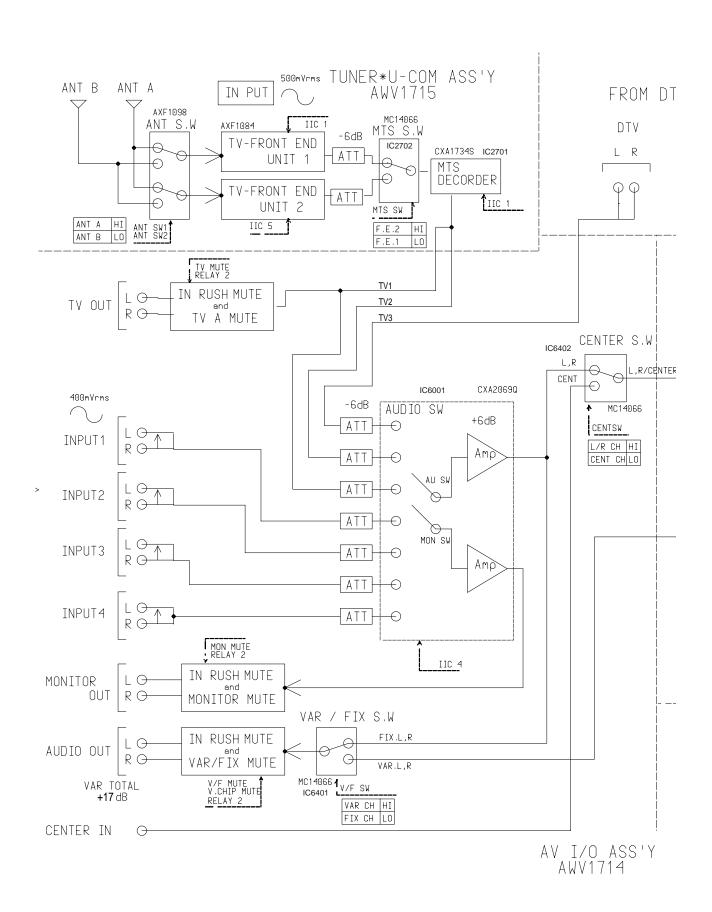
7.3 BLOCK DIAGRAMS

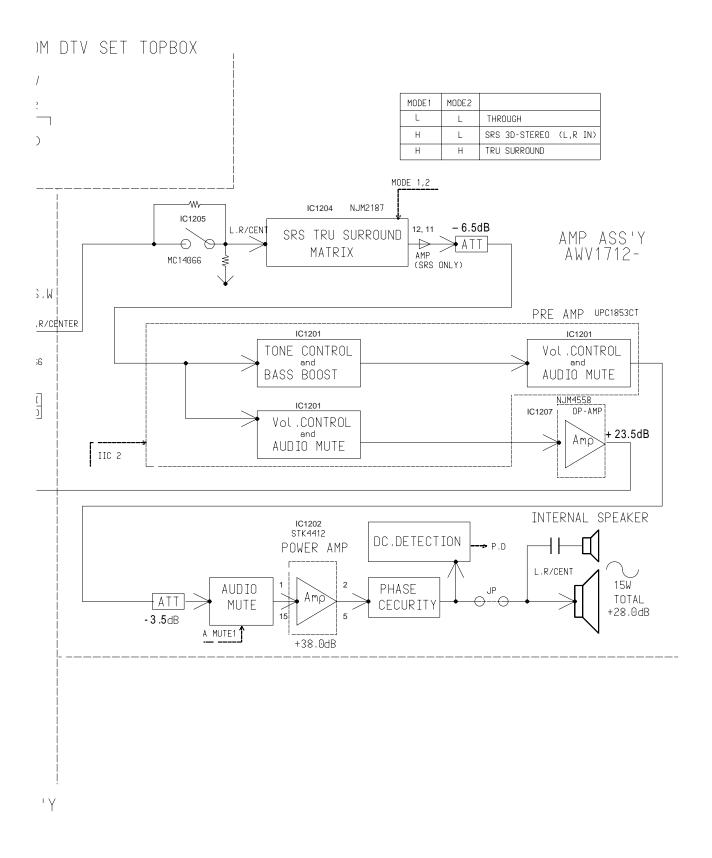
7.3.1 μ -COM BLOCK



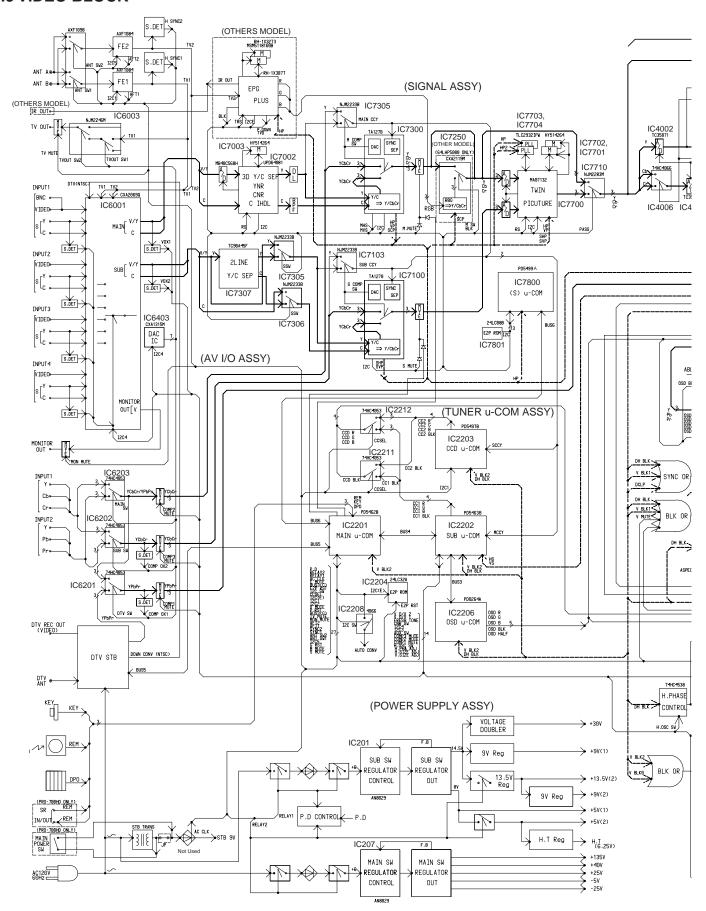


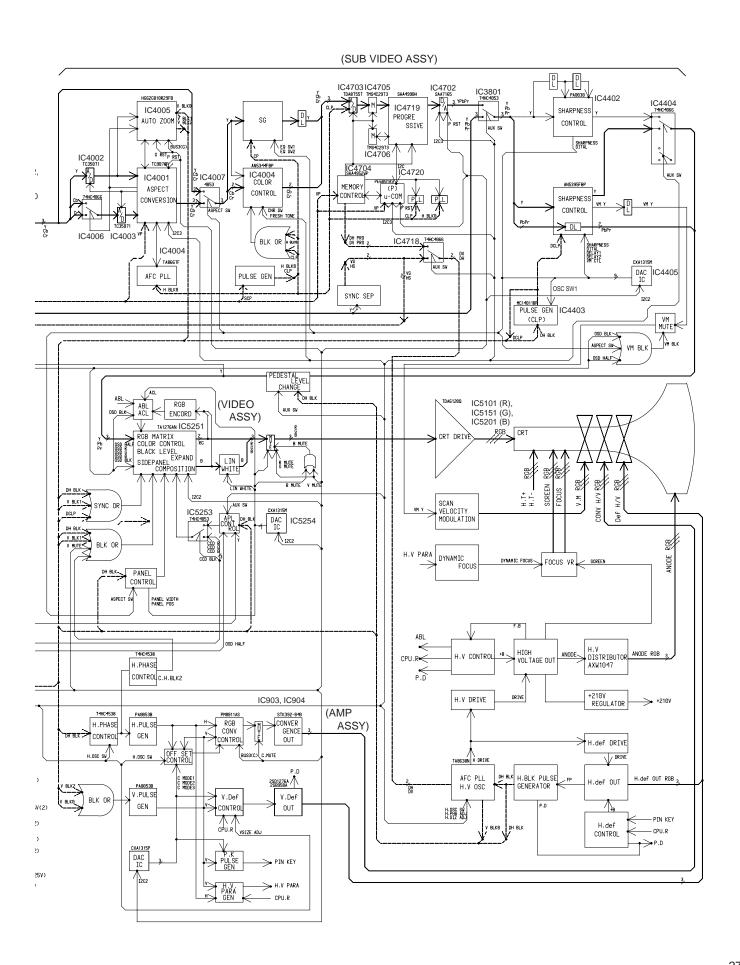
7.3.2 AUDIO BLOCK





7.3.3 VIDEO BLOCK





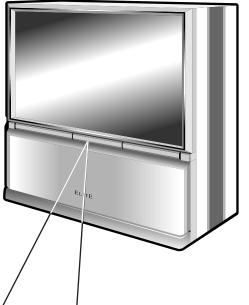
8. PANEL FACILITIES AND SPECIFICAITONS

8.1 PANEL FAICLITIES

A flip-down door conceals the control panel. Push gently and release, to open the door. To close the door, lift it back up into place.

NOTE:

If you accidentally pull the door, it may not shut properly. Push the door back in to shut it.



1) POWER STANDBY/ON indicator

2 DTV indicator

Lights when receiving a digital television broadcast. If a digital tuner has been connected, the DTV indicator may still blink even when the power has been turned off. (This is not a defect.)

3 DPO sensor

Sensor to detect the room brightness.

(4) MAIN POWER switch

Press once to turn on the main power (STANDBY mode). Press again to turn off the main power.

⑤ POWER button (STANDBY/ON)

Press once to turn on the Monitor. Press again to turn off the Monitor.

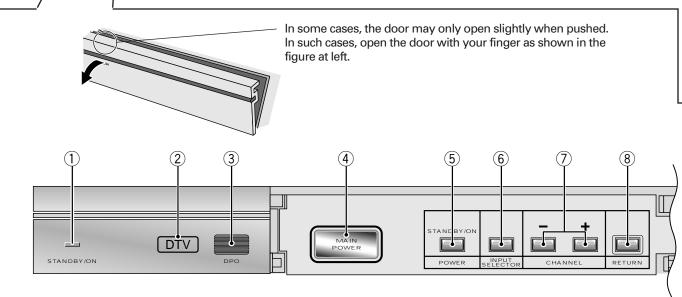
6 INPUT SELECTOR button

Press to select your program source. Each press of the INPUT SELECTOR changes the selection to the next source.

$$\longrightarrow TV \longrightarrow (DTV) \longrightarrow INPUT 1 \longrightarrow INPUT 2 \longleftarrow INPUT 3 \longleftarrow INPUT 2 \longleftarrow INPUT 3 \longleftarrow INPUT 2 \longleftarrow INPUT 3 \longleftarrow INPUT 2 \longleftarrow INPUT 3 \longrightarrow INPUT 3$$

7 CHANNEL buttons

Press plus (+) or minus (–) to tune to a higher or lower channel. Only the preset channels can be tuned in using these buttons.



8 RETURN button

Press to set the Projection Monitor to its initial mode.

Initial mode

Input selector: Set to TV.

TV channel: Remains at the last channel set. VOLUME: Remains at the last setting.

MUTING: OFF

PICTURE

MODE: STD Parameters: Set to 0.

3D Y/C LEVEL: 3
3D NR LEVEL: 3
CNR: OFF
COLOR TEMP: MID
FLESH TONE: ON
SVM HIGH

SOUND

MTS: MAIN
Parameters: Set to 0.
SURROUND: OFF

SCREEN

AUTO SCREEN: OFF

MODE: NATURAL WIDE

V. POSITION: Set to 0. CC: OFF DPO: OFF

SYSTEM IN/OUT

SPEAKER: NORMAL AUDIO OUT: FIXED SYSTEM MODE: OFF

 When this button is pressed while adjusting the outer point convergence, the outer point convergence returns to the initial mode.

9 VOLUME buttons

Press plus (+) button to increase the volume, press minus (-) button to decrease it.

10 INPUT 4 jacks

These inputs are for Video Movie and VCR. Use RCA-type pin plug cords (the same as those used in Hi-Fi systems) and S-VIDEO cords for connections. When the audio source to be connected is monaural, connect the source to the L-(MONO) iack.

CAUTION:

Do not press any operation button on the Projection Monitor or the remote control unit while recording. Signals from the MONITOR OUTPUT jacks may be temporarily interrupted when a button is pressed.

ATTENTION

The Projection Monitor Receiver will not function properly in the following cases.

- · An electrical discharge in the CRT.
- · Lightning storms.
- High static electricity environment.
- Poor voltage regulation in the power source.

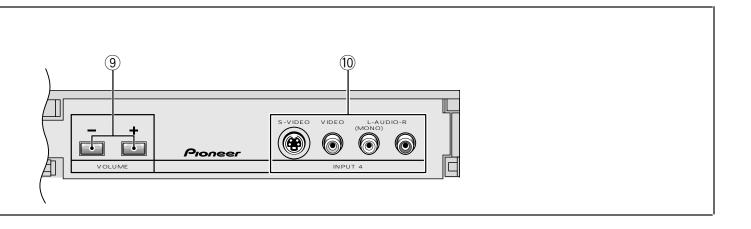
If the Projection Monitor does not operate properly, reset it as follows:

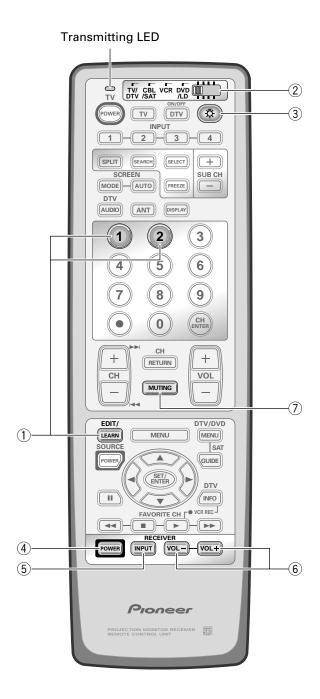
- Turn off the power of the unit with the ④ MAIN POWER switch.
- After approximately 1 minute, turn on the power with 4
 MAIN POWER switch and 5 POWER button.

If the normal operation cannot be restored after the above treatment, immediately unplug the power cord and call your nearest PIONEER-authorized service center.

NOTE:

On rare occasions, an electrical discharge may occur inside the CRT. It makes a short, sharp pop and either no sound is produced or the volume level changes by itself. The SPLIT screen and SEARCH screen functions will be cancelled automatically if an electrical discharge occurs when this function is engaged.





REMOTE CONTROL UNIT SETTING BUTTONS

1 EDIT/LEARN button

EDIT: When the EDIT/LEARN button is pressed at the same time as number button 1, the mode will

change to preset code edit mode.

LEARN: When the EDIT/LEARN button is pressed at the

same time as number button 2, the unit's capability to learn and store command codes from other

remote control units will be activated.

2 Mode switch

Use to switch the remote control unit modes.

3 Light button

When this button is pressed, all the buttons on the remote control unit will light. The lighting will turn off if no operations are performed within five seconds.

This button is used for performing operations in dark places.

RECEIVER CONTROL BUTTONS

When a Pioneer receiver is connected to the Monitor, the receiver can be operated using buttons (4) to (6).

When another company's receiver is connected to the Monitor, have the signals for 4 to 6 learned.

4 RECEIVER POWER button (STANDBY/ON)

Turns receiver power on and off.

5 RECEIVER INPUT button

Selects the input source connected to the receiver.

6 RECEIVER VOL (volume) +, - buttons

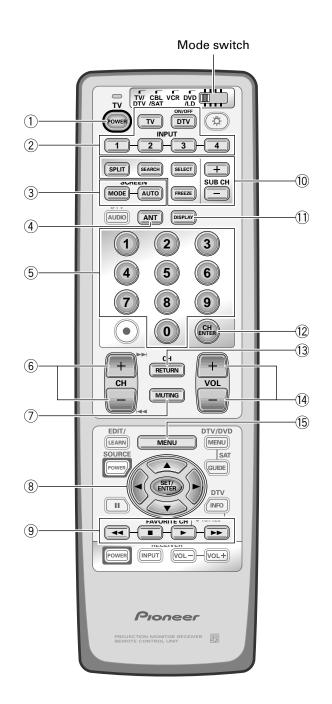
Adjusts receiver volume level.

Press the plus button (+) to increase the volume and the minus button (-) to decrease it.

(RECEIVER) MUTING button

Allows the receiver's mute signal to be learned.

This button is used when the mode switch has been set to something other than TV/DTV.



MONITOR (TV) CONTROL BUTTONS

Set the mode switch to TV/DTV.

1) TV POWER button (STANDBY/ON)

Turns the power of the monitor on and off.

2 Input Selector buttons (TV, DTV*1, INPUT 1 to INPUT 4)

Press the button to select the source you wish to watch. The screen will display your selection.

3 SCREEN MODE, AUTO SCREEN buttons

MODE: Press to select the SCREEN MODE.

AUTO: Press to turn the AUTO SCREEN function on and

4 ANT (antenna selector) button

Press to switch between ANTENNA-A and ANTENNA-B when you wish to watch TV.

5 Direct channel selection buttons

Press the button (or buttons) that corresponds to the channel that you wish to watch.

6 CH (channel) +, - button

Press plus (+) or minus (-) to tune in a higher or lower channel. Only the preset channels can be tuned in using these buttons.

7 MUTING button

Press to temporarily turn off the sound. Press again to return to the previous volume level.

Select/Adjust/Set buttons (SET/ENTER, ◄, ►, ▲, ▼)

Press to select or adjust items on the menu **◄**, ▶, ▲, ▼: screen.

SET/ENTER: Press to activate the selected function.

9 FAVORITE CH buttons

These buttons call up the channels that have been assigned to them.

10 SPLIT/SEARCH screen buttons

Press to turn the SPLIT screen function on and SPLIT:

SEARCH: Press to select the SEARCH screen mode. SELECT: Selects the screen for switching the channel or

input source.*2

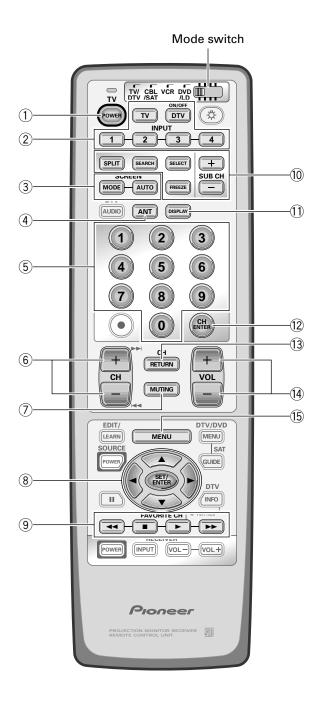
When this button is pressed with the regular FREEZE:

screen, the screen will change to the SPLIT screen and the picture at the time the button was pressed will become the sub-picture,

displayed as a frozen image.

SUB CH +, -: Used to switch the channel for the sub-picture

of the SPLIT screen.



11 DISPLAY button

Press to display the input source, channel, setting and other screen indicators for a few seconds.

(12) CH ENTER button

Fix the selected channel with the direct channel selection buttons.

(3) CH RETURN (channel return) button

Press to switch between the current channel and the channel you were watching immediately before.

14 VOL (volume) +, - buttons

Press plus (+) button to increase the volume, press minus (–) button to decrease it.

Volume level will appear on the screen as numbers and a bar graph. The maximum volume level is "63".

The display will disappear from the screen after 2 seconds.

15 MENU button*3

Press to turn on the menu screen for use in function selection. Press again to return to normal TV screen.

- *1 For viewing DTV broadcasts, the SH-D07 digital tuner (sold separately) is necessary.
- *2 With the 9-SEARCH screen, the search picture's input source and channel cannot be switched.
- *3 When the MENU button is pressed, the buttons indicated by "®" (SET/ENTER, ◄, ▶, ▲ and ▼) will light for a few seconds, indicating that the remote control is ready for making menu settings.

When menu settings are made with the remote control in this condition, all of the buttons indicated by "®" will blink while buttons are pressed.

■ SPECIFICATIONS

Display and amplifier section

Screen size 64" CRT 7" High focus CRT x 3 Brightness (White peak) 400 Foot-Lambert [White window signal input contrast Max.] without protective screen
Horizontal resolution More than 1400 lines
[Input digital test pattern (1400 lines resolution)]
Input terminals
4 S-VIDEO input jacks (Y/C separate INPUT)
2 COMPONENT VIDEO INPUT jacks (Y, C _B /P _B , C _R /P _R) 4 audio inputs
CENTER INPUT jack
Output terminals MONITOR/TV/AUDIO
Input terminal signal ratings
Input signal
Video signal:
Composite and S-VIDEO(Y):1.0 Vp-p (75 ohms load) COMPONENT (Y): 1.0 Vp-p (75 ohms load) (CB/PB, CR/PR): 0.7 Vp-p (75 ohms load)
Input impedance
Audio input (including CENTER): 22 kilo-ohms
Audio input (including CENTER): 22 kilo-ohms or more Input signal polarity (Video) Synchronized negative Output terminal signal ratings Output signal Video signal: 1 Vp-p (75 ohms load)
Audio input (including CENTER): 22 kilo-ohms or more Input signal polarity (Video) Synchronized negative Output terminal signal ratings Output signal Video signal: 1 Vp-p (75 ohms load) Audio signal: 500 mV rms (100 % modulation)
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Tuner section

Circuit type	Video signal detection:
опосит туро	PLL full synchronous detection
	PLL digital synthesizer system
	Audio multiplex: BTSC system
Reception channels.	VHF; CH2~CH13, UHF; CH14~CH69
	CATV (STANDARD, IRC or HRC)
	CATV 1-125 CH
Antenna terminals	
	Antenna terminal, 75 ohms UNBAL,
	F-type connector (VHF, UHF MIXED)

Electrical section, miscellaneous

Power requirements	120 V AC, 60 Hz
Power consumption	
At time of shipment	343 W, 650 VA (CSA)
With digital tuner installed	
External dimensions 1510 (W)	
59-7/16 (W) x 27-2	28/32 (D) x 56-1/8 (H) inch
Weight of main unit	167 kg (368 lb 4 oz)

Wireless remote control unit

Operation system	Infrared remote control system
Power source	. Two DURACELL ""AA" MN1500 1.5 V
	ALKALINE dry cell batteries
Dimensions	66 (W) x 24.6 (H) x 226.5 (D) mm
2-19	/32 (W) x 31/32 (H) x 8-29/32 (D) inch
Weight	170 g (4 oz) (without batteries)

Accessories

Operating instructions	1
Warranty card	
Remote control unit	1
DURACELL"AA" MN1500 1.5V	
Alkaline dry cell batteries	2
Protective screen	1
Panel frame	2
Side frame cover	2
Frame cover	2
Panel frame attaching screw	10